

INDEX

H.A. Vol. 20. No. 1.

N.B.—Brackets round the name denote that this person, although not the author, was directly or indirectly concerned with the article.

- ABBOTT, O. D., 455
 ALBERT, W. B., 218
 ALEKSEVA, E. I., 364, 370
 ANDERSON, E. G., 202
 ANDERSON, P. J., 343a
 ANDERSON, W. L., 363
 ANDERSON, W. S., 391
 ANDREWEG, J. M., 290
 ANDRÉ, E., 335
 ANON., 76, 99, 112, 304, 416
 ARCENEUX, G., 240
 ARCHARD, J., 166
 ARK, P. A., 141, 291
 (ARMAND, J. E.), 244
 ARNAUD, G., 149
 ARREGUIN-LOZANO, B., 448
 ASSOCIATED SEED GROWERS INC., 254
 ATHERTON, D. O., 396
 ATTOE, O. J., 325

 BAILEY, F. L., 380
 BAINES, R. C., 384
 BAKER, K. F., 352
 BAKER, R. E., 109
 BAKKEN, H. H., 343b
 BALDACCI, E., 133
 BANZON, J., 454
 BARKER, B. T. P., 451
 BARKER, H. A., 480
 BARR, C. G., 444
 BARSHAD, I., 48a
 BASHIROV, F. B., 111
 BASTELEUS, R., 114
 BASUTOLAND DEPARTMENT OF AGRICULTURE, 494a
 BAUDEWIJN, J., 305
 BAUMGARTEN, A., 130
 BEACH, G., 348
 BEER, R. E., 347
 BELIKOV, S. A., 56
 BELISARIO, M. C., 405
 BERGAMIN, J., 403
 BERKMAN, B., 336
 BERMUDA DEPARTMENT OF AGRICULTURE, 494b
 BERRY, L. J., 343c, 343x
 BERTHELOT, P., 62
 BERTOSSI, F., 326
 BESEMER, A. F. H., 183
 BESTER, J. J. A., 435e
 BIER, J. E., 143
 BIOLOGICAL BRANCH, N.S.W. DEPARTMENT OF AGRICULTURE, 258
 BIRON, M., 110
 BOBB, M. L., 177
 BOKE, N. H., 374a
 BONNER, J., 48b, 48c, 448

 BOOTH, V. H., 265
 BORZINI, G., 145
 BOULAY, H., 77
 BOULD, C., 124
 BOVEY, P., 158
 BOWDITCH, J. B., 343u
 BOWERS, J. L., 289
 BOWMAN, F. T., 97
 (BOYCE, H. R.), 244
 BRADLEY, C. E., 340
 BRADLEY, R. H., 221
 BRASFIELD, T. W., 187
 BRAUNS, A., 260
 BRITISH COLUMBIA DEPARTMENT OF AGRICULTURE, 182
 BRITISH HONDURAS DEPARTMENT OF AGRICULTURE, 494c
 BROOKS, R. M., 100a
 BROWN, C. A., 235
 BROWN, L., 179
 BRÜNE, F., 458
 BRY, A., 100b
 BRYANT, W. G., 374j
 BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE, 198a
 BURTT, B. L., 435a
 BUZZI, C. C., 58

 C., V., 37
 CAIRASCHI, —, 166
 CAIRASCHI, E. A., 166
 CALAVAN, E. C., 383
 CALMA, V. C., 389
 CAMERON, D. R., 343d
 CAMPBELL, G. A., 471
 CANADA DEPARTMENT OF AGRICULTURE, DIVISION OF ENTOMOLOGY, 244
 CARAÑGAL, A. R., Jr., 454
 CARDINELL, H. A., 444
 CARIBBEAN COMMISSION RESEARCH BRANCH CENTRAL SECRETARIAT, 472
 CARLSON, F. W., 160
 CARTER, E. P., 236
 CAWTHRON INSTITUTE, NEW ZEALAND, 494d
 CHADWICK, L. C., 346, 367
 CHEESMAN, E. E., 435b
 CHEN, Y.-T., 48h
 CHICK, H., 452
 CHILDS, H., 459
 CHILTON, S. J. P., 238, 239, 241f
 CHRISTOPHER, E. P., 249
 CHU, T. S., 24
 CLAASSEN, C. E., 337, 474
 CLARK, B. E., 277
 CLIFTON, C. E., 480
 COCHRAN, J. H., 174

 COETZEE, W. H. K., 435e
 COLE, C. E., 125
 COLE, D. J., 40
 COLLINS, J. L., 411
 COMMONWEALTH MYCOLOGICAL INSTITUTE, 144
 COOK, C. W., 201
 CORDIER, G., 456
 COTTON, B. C., 180
 COURTIEU, P., 306
 COWART, C. E., 241a
 COX, J. F., 460
 CRAFTS, A. S., 206, 207, 234
 CRANDALL, P. R., 395a
 CRANE, M. B., 343e
 CRANG, A., 457b
 CRAVENS, M. E., Jr., 443
 CRUICKSHANK, E. M., 48h
 CULLINAN, F. P., 198b
 CURCIO, M., 322
 CURRIER, H. B., 205
 CUTRIGHT, C. R., 152, 198c
 CYPRUS DEPARTMENT OF AGRICULTURE, 473

 DANIELSON, L. L., 209, 227
 DARK, S. O. S., 265
 DARROW, G. M., 103
 DAVIDSON, O. W., 353
 DAVIS, A. C., 320
 DAVIS, G. N., 271
 DAVIS, L. H., 352
 DAWES, T. C. R., 343f
 DAWSON, C. D. R., 264
 DeFRANCE, J. A., 231
 DELANOUÉ, P., 191
 DELASSUS, —, 148
 DeLONG, D. M., 135
 DERMEN, H., 100c
 DERMINE, —, 102
 DESRUE, A., 153
 DETROUX, L., 194
 DEWALD, F. L. P., 442
 DICKEY, R. S., 141, 291
 DICKSON, G. H., 70
 DIJKSTRA, S. P., 334
 DIMOCK, A. W., 352
 DIRECTIE VAN DE LANDBOUW, 319
 DIVISION OF PLANT INDUSTRY, DEPARTMENT OF AGRICULTURE, N.S.W., 307
 DOLAN, D. D., 249
 DONOHUE, H. C., 198d
 DOWNIE, W. A., 450
 DRAGOŽANSKAJA, V. M., 71
 DRAIN, B. D., 332
 DRIGGERS, B. F., 163, 173
 D.S.I.R., NEW ZEALAND, 486
 DUBROVICKAJA, N. I., 21

- DUFRENOY, J., 437
 DUMAS, P., 185
 DUMONT, L., 169
 (DUSTAN, G. G.), 244
 EBES, K., 399
 ECKERT, J. E., 196
 EDMINSTER, F. C., 363
 EDMUNDSON, W. C., 279
 EDWARDS, R. L., 303
 ELLIS, N. K., 221
 EMANUELLI, A., 234
 VAN EMDEN, J. H., 430, 431
 EMMERT, F. M., 309
 ENNIS, W. B., Jr., 210
 ENTOMOLOGICAL BRANCH,
 DEPARTMENT OF AGRICUL-
 TURE, N.S.W., 154, 252, 361
 ERDMAN, L. W., 100d
 ERHART, H., 413
 EVANS, H. C., 298
 EVERSDIJK, M. S., 38
 FAGEL, G., 313
 FANELLI, L., 53
 F.A.O., 461
 FARISH, L. R., 216
 FARRALL, A. W., 129
 FEDOROV, M. A., 59
 FERNANDO VILLAMIL, G., 400
 FERRER, R., 211, 233
 FISCHER, C. W., Jr., 374b, 374c
 FISCHER, M. A., 343g
 FISHER, W. D., 343h
 FLETCHER, S. B. D., 190
 FLÜGEL, A., 48d
 FRANCE D'OUTRE-MER, OFFICE DE
 LA RECHERCHE SCIENTIFIQUE
 COLONIALE, 475
 FRANKLIN, E. W., 436
 FRASER, L., 299
 FREDERICTON DOMINION EXPERI-
 MENTAL STATION, N.B., 476
 FREELAND, R. O., 14
 FREEMAN, J. F., 213
 FRENCH, R. B., 455
 FRÉZAL, P., 192, 387
 FRIEND, A. H., 168
 FRIESEN, H. A., 229
 FRITZSCHE, R., 84
 (FULTON, H. G.), 244
 GAGNEBIN, F., 343i
 GALSTON, A. W., 15
 GARBUZOVA, A. P., 308
 GARDNER, V. R., 81, 85, 129
 GAYFORD, G. W., 116
 VAN GEEL, J. D. W., 44
 GEIER, P., 158
 GELDERMALSEN, STATE HORTICUL-
 TURAL ADVISORY SERVICE,
 477
 GERSDORF, E., 260
 GIEGER, M., 391
 GILLARD, S. O., 270
 GILLIAT, J., 436
 VAN GILS, G. E., 423
 (GLENDENNING, R.), 244
 GLOVER, P. M., 429
 GODCHAUX II, L., 237
 GOODERHAM, G. B., 79
 GOULD, C. J., 358
 GRAHAM, C., 175
 GREENHAM, C. G., 40
 GREENWOOD, W., 241b
 (GREIG, A. M. W.), 485
 GRIFFITHS, D. G., 457a
 GROOTENHUIS, J. A., 28
 GROSZMANN, H. M., 388
 GUERREIRO, M. G., 118
 HAAGEN-SMIT, A. J., 340
 HAARER, A. E., 373
 HABIB, P. C., 285
 HABRAN, R., 262
 HAGEDORN, D. J., 283
 HAGOOD, E. S., 241c
 HAIGHT, G. S., 359
 HALL, W. C., 273
 HALLEMANS, A., 155, 161
 HAMMER, O. H., 198e
 (HAMMOND, G. H.), 244
 HANSEN, C. M., 129
 HANSON, N. S., 241d
 HARDENBURG, R. E., 446, 447
 HARE, W. W., 282
 HARRIS, W. B., 156
 HARRISON, T. B., 215
 HARTMANS, E. H., 443
 HASEK, R., 349
 HASEK, R. F., 374f
 HASKELL, G., 287
 HASTINGS, R. J., 360
 HEBERT, L. P., 240
 HEGGESTAD, H. E., 321
 HÉLAUT, M., 52
 HEUY, P. C., 253
 HEMPHILL, D. D., 11
 HERNANDEZ, T. P., 217, 219, 223,
 224, 241e
 HERNÁNDEZ VIDAURRETA, M., 434
 HERVEY, G. E. R., 266
 HES, J. W., 428
 VAN HIELE, T., 439, 441
 HILDEBRANDT, A. C., 48k
 HILL, H., 120
 HILLSBOROUGH AGRICULTURAL
 RESEARCH INSTITUTE, N. IRE-
 LAND, 494g
 HITCHCOCK, A. E., 374k
 HOBBS, J. C., 404
 (HOCKETT, R. C.), 492
 HOFFMAN, J. C., 220
 HOFFMANN, K. D., 256
 HOGAN, T. W., 171
 HOLMGREN, A. H., 199, 201
 HOOS, S., 285
 HOWARD, R. A., 435c
 HOWE, W. L., 269
 HUBBELING, N., 255
 HUGHES, W. A., 386
 HÜLSMANN, B., 63
 HUNTLEY, G., 415
 HUTSON, R., 176
 HUTTON, K. E., 138
 HYAMS, E., 462
 (INDIAN COFFEE BOARD), 478
 INGALLS, R. A., 286
 ISTITUTO SCIENTIFICO SPERIMEN-
 TALE PER I TABACCHI, 323
 JACKSON, L. E., 460
 JACOBONI, N., 75
 JAMES, D., 457b
 JAMISON, V. C., 376
 JANKE, O., 198f
 JARRETT, J., 343j
 JEFFERY, C. W., 132
 LE JEHAN, 162
 JENKINS, D. W., 474
 JENKINS, J. M., Jr., 230
 JOARY, P., 166
 JOHANSSON, E., 104
 JOHNSON, J., 6, 321, 325, 343k,
 343 l
 JOHNSON, W. A., 248
 JOHNSTON, F. A., Jr., 394
 JOHNSTON, R. E., 204
 JONES, H. A., 279
 JONES, R. L., 48e
 JUILLET, —, 292
 KADAM, B. S., 324
 KALIČAVA, A. D., 381
 KALININ, F. L., 284
 KAMP, J. R., 369, 374c
 KAPPERT, H., 374d
 KASSANIS, B., 311
 KATZ, M., 126
 KATZNELSON, H., 79
 KELLY, J. T., 457c
 KENTEN, R. H., 48f
 KENWORTHY, A. L., 93
 KESSLER, H., 463, 464
 KEYWORTH, W. G., 328
 KIESER, M. E., 457d
 KIMBROUGH, E. F., 20
 KING, H. L., 176
 KINMAN, C. F., 49
 KIPLINGER, D. C., 349
 KIRIENKO, M. V., 316
 KLENNIN, A. F., 9
 VAN DER KLOES, L. J. J., 90
 KLOTZ, L. J., 385
 KOBEL, F., 465
 KOFRANEK, A. M., 374b, 374e
 KOHLS, H. L., 267
 KONING, H., 212
 VAN KOOT, Y., 12
 KOPETZ, L. M., 243
 KOSTJUK, P. N., 147
 KOVERGA, A. S., 48g
 KOVERGA, E. L., 48g
 KRAMER, A., 343m
 KREITMAN, G., 198g
 KRONE, B. P., 343n
 KUENEN, D. J., 195
 KUHN, L., 186
 KULP, D. A., 41
 KÜPPERS, H., 64
 LAFLEUR, W., 362, 374f
 LAGASSE, F. S., 393
 LAMBERS, M. H. R., 402
 LARSSON, G., 343s
 LAUFFER, M. A., 343g
 LAURIE, A., 365, 368, 374g, 374i,
 374j
 LAWRENCE, W. J. C., 22
 LAWREY, V. L., 188
 LECRENIER, —, 102
 LEGGATT, C. W., 286
 LEONARD, O. A., 216, 391
 LEONE, I. A., 296
 LEWIS, D., 3
 LEWIS, P., 435a
 VAN LIERE, W. J., 25
 LIST, G. M., 172
 LISTER, C. A., 386
 LLOYD, N. C., 189
 LOCKE, S. B., 302

LOEST, F. C., 300
LOUSTALOT, A. J., 211, 232, 233,
432

McAULIFFE C., 34
McCALL, G. L., 208
(McDONALD, J.), 473
MACINTIRE, W. H., 26
MACKOV, F. F., 16, 31
McLARTY, H. R., 123
McMULLEN, A. L., 422
MAGNESS, J. R., 49
MAGUIRE, B., 199
MAILLET, A., 184
MAINE AGRICULTURAL EXPERI-
MENT STATION, 479

MAKAROV, N. A., 33
(MALTAIS, J. B.), 244
MANN, P. J. G., 48f
MANNING, W. E., 119a
MAPSON, L. W., 48h
MARKLEY, K. S., 474
MARLOTH, R. H., 375
MÁRSICO, D. F., 55
MARSSOLAT, R., 51
MARTIN, H., 198h
(MASON, G. S.), 244
MÁSSING, W., 193
MATHYS, G., 158
MELVILLE, R., 453
MERRILL, L. G., Jr., 173
MERRILL, T. A., 85
METCALFE, T. P., 48e
MEULI, L. J., 392
MILLER, V. L., 358
MINISTÈRE DE L'AGRICULTURE,
PARIS, 117

MINISTRY OF AGRICULTURE, LON-
DON, 48i, 106, 119b, 278, 288,
314, 343o, 343p, 343q, 343r
MIRIMANJAN, V. A., 382
MISSION HORTICOLE, SERVICE DE
L'HORTICULTURE, RABAT, 466
MISSISSIPPI AGRICULTURAL EX-
PERIMENT STATION, 481, 494e
MITCHELL, W., 197
MOEWUS, F., 18
MOLOTKOVSKIA, G. H., 17
MOORE, R. J., 374g
MORRELL, K. E., 281
MORRIS, D. S., 171
VAN DEN MULZENBERG, E. W. B.,
43, 107

MUKHERJI, S., 409
MULDER, D., 30, 121, 122, 146
MUSHROOM RESEARCH ASSOCIA-
TION LTD., YAXLEY, 482

NATIONAL RESEARCH COUNCIL OF
CANADA, 494f
NAUNDORF, G., 400
NAVLET, A., 242
NEBRASKA AGRICULTURAL EX-
PERIMENT STATION, 483
NEDERLANDSE FRUITTELIERS OR-
GANISATIE, 484
NEWCOMER, E. J., 160
NEWTON, H. C. F., 331
NEWTON, J. H., 172
NEW ZEALAND DIVISION OF
HORTICULTURE, 485
NICHOLAS, D. J. D., 29
NICKELS, C. B., 178

NIGERIA AGRICULTURAL DEPART-
MENT, 487

NILSSON, F., 343s
NIXON, P. P., 225
NORD, F. F., 198g
NORRIS, W. E., Jr., 343c
NORTHERN IRELAND AGRICUL-
TURAL RESEARCH INSTITUTE,
HILLSBOROUGH, 494g

NORTHERN RHODESIA DEPART-
MENT OF AGRICULTURE, 494h

NOTT, J., 327
NOVOGRUDSKIA, D. M., 139
N.S.W. DEPARTMENT OF AGRICUL-
TURE, BIOLOGICAL
BRANCH, 258

N.S.W. DEPARTMENT OF AGRICUL-
TURE, DIVISION OF PLANT
INDUSTRY, 307

N.S.W. DEPARTMENT OF AGRICUL-
TURE, ENTOMOLOGICAL
BRANCH, 154, 361

N.S.W. TRIFOLIATA IMPROVE-
MENT COMMITTEE, 379

O'CONNOR, B. A., 401
ODLAND, M. L., 343t
VAN OEVEREN, J. A., 88
OFFNER, J., 60
OFFORD, H. R., 203
OGDEN, W. B., 325, 343k, 343 l
ØHLERS, H., 98
OLMO, H. P., 100a
OLSON, C. J., 351
O'NEILL, D. K., 406
OPPENHEIMER, H. R., 2
ORR, H. P., 374i
ORVE, K. H., 241g
OSIPOV, V. S., 245
OSTERWALDER, A., 83
ÖSTLIND, N., 92
OUBOTER, M. P. DE B., 374h
OVERSEAS FOOD CORPORATION,
488
OZOL, A. M., 131

PAINÉ, J., 328
PAL, N. L., 324
PARKS, T. H., 198c
PASSECKER, F., 82
PEARCE, S. C., 80
PEARSON, H. E., 345
PERRY, B. A., 279
PEYER, E., 119c
PFAHL, P. B., 374i
PFÄLTZER, A., 417, 433
PFANNENSTIEL, A., 67
PFANNENSTIEL, D., 67
PHILLIPS, A. M., 179
PHILLIPS, C. D., 298
PHILLIPS, R. P., 238
PICKERING, V. L., 437
PIERIS, W. I., 435d
PIGUET, P., 192
PIJLS, F. W. G., 42
PINTO, J. A. G., 445
PIROVANO, A., 113
PODOLSKAJA, O. I., 23
PODRAZANSKAJA, H. A., 16
POLI, G., 27
POLLARD, A., 457d, 457e
POTTER, N. A., 457a
POTTER, T. E. K., 427
POUTIERS, R., 166

PRATT, R., 437
PRESTON, N. C., 329
PRITCHARD, A. E., 347
PROKOFJEV, C. P., 128
PUCHER, G. W., 48j
PUFFELES, M., 54
PUGSLEY, L. I., 457c

QUARRELL, C. P., 467

VAN RAALTE, A., 372
RAČKOV, V. M., 147
RADŽABLI, A. D., 56
RAFFEL, S., 480
RANDHAWA, G. S., 68, 69
RANSON, F., 468
RAWLINS, W. A., 320
READ, F. M., 101, 181
REBOUR, H., 100e
RÉGNIER, R., 166
REITSMA, J., 430, 431
RENOUF, L. R., 50
RESEARCH BRANCH CENTRAL SEC-
RETARIAT, CARIBBEAN COM-
MISSION, 472

REYNEKE, J., 435e
RICH, A. E., 315
LE RICHE, F. J. H., 390
RIKER, A. J., 48k
ROBERTS, J. D., 312
ROBERTS, R. H., 19, 371
ROELS, O., 412
ROGERS, W. S., 108
ROLAND, G., 198i, 313
ROODENBURG, J. W. M., 7, 8
ROOP, Q. W., 440
DE ROPP, R. S., 142
ROSE, D. H., 438
ROSE, R. C., 341
ROTTA, H., 10
LE ROUX, M. S., 115
RYAN, F. E., 198j
RYKER, T. C., 228, 241a, 241f

SACHS, L., 4
SALMON, E. S., 330
SANFORD, G. B., 317
SANNIKOV, V. C., 74
SARFATTI, G., 200
SCARAMUZZI, G., 326
SCHEERLINCK, H., 13
SCHERY, R. W., 426
SCHNEIDER, F., 170
SCHOENE, D. L., 187
VAN SCHOONVELDT, J. C., 419
SCHROEDER, W. T., 266
SCHRUMPF, W. E., 310
SCHUPHAN, W., 246
SCHWANTZ, F., 35
SCHWEIZER, J., 421
SCOTTISH SOCIETY FOR RESEARCH
IN PLANT-BREEDING, 489
SEELEY, J. G., 366
SELL, H. M., 394
SEPTROUX, J., 36
SERGEEVA, K. A., 57
SEVERIN, H. H. P., 135, 136, 137
SEXTON, W. A., 48e
SEYCHELLES DEPARTMENT OF
AGRICULTURE, 490
SHANKS, J. B., 368
SHAW, H., 342
SHIFFRIS, O., 268
SHIVE, J. W., 296

- SIEVERS, A. F., 338
 DE SILVA, C. A., 414, 420
 SIMMONDS, J. H., 407
 SIMS, G. T., 247
 SINCLAIR, W. B., 395a
 SIPKES, C., 127
 SKEPPER, A. H., 95
 SKOLNIK, M. JA., 33
 SLACK, E. B., 452
 VAN SLOGTEREN, E., 374h
 SMIRNOVA, O. N., 164
 SMITH, B. W., 103
 SMITH, G. E., 225
 SOENEN, A., 167
 VAN SOEST, W., 73
 SOETARDI, R. G., 424
 SOUCEK, J., 72
 SPEAR, I., 280
 SPENCER, H., 179
 SPEYER, W., 261
 SPOELSTRA, P. A., 45
 SPONJKO, G. A., 65
 SPRENG, H., 465
 SPRENGER, A. M., 89
 STAMPER, E. R., 228, 239, 241c
 STAPLES, R., 320
 STEINHAUSER, F., 263
 STEINIG, 105
 STEPHENS, S. E., 410
 STILLINGS, E., 365
 STODDARD, L. A., 201
 STOLOFF, L., 339
 STONE, A. M., 457d
 STRUCKMEYER, B. E., 48k, 371
 STRUIJS, L. C., 355
 STUART, N. W., 356, 357
 VAN STUIVENBERG, J. H. M., 344
 ST. VINCENT AGRICULTURAL
 DEPARTMENT, 491
 SUGAR RESEARCH FOUNDATION,
 492
 SWANBACK, T. R., 343a
 SWAZILAND DEPARTMENT NATIVE
 LAND SETTLEMENT, 494i
 SWÉZEY, A. W., 392
 SWINGEN, J. L., 374j

 TASCHENBERG, E. F., 318
 TATE, H. D., 187
 TAVEIRA FERNANDES, C., 151
 TAYLOR, A., 435f
 TERRA, G. J. A., 397

 THIMANN, K. V., 280
 THIOLLIÈRE, J., 150
 THOMAS, K. M., 478
 THOMPSON, C. R., 469
 THOMPSON, R., 47
 THOMPSON, R. C., 275
 THORNE, D. W., 297
 THURLOW, J., 48b
 TILKIN, N., 102
 TIPLER, R. V., 408
 TJALLINGII, F., 274
 TOENJES, W., 85, 96, 140
 TRESADERN, F. H., 197
 TRIFOLIATA IMPROVEMENT COM-
 MITTEE, N.S.W., 379
 TROUVELOT, B., 166
 TRUSCOTT, J. H. L., 436
 TSUI, C., 32
 TUCUMÁN ESTACIÓN EXPERIMEN-
 TAL AGRÍCOLA, 378
 TUKEY, H. B., 68
 TULIŽENKOVA, F. F., 272
 TULLIS, E. C., 241g
 TUNISIE, SERVICE BOTANIQUE ET
 AGRONOMIQUE, 493, 494j
 TURK, L. M., 24

 UPSHALL, W. H., 68, 69, 70
 U.S. DEPARTMENT OF AGRICUL-
 TURE, 470

 VACILJEV, V. I., 94
 VALLANCE, K. B., 241h
 VANDERWEYEN, R., 412
 VANSSELL, G. H., 78
 VAPPULA, N. A., 198k
 VASSEUR, R., 157
 VAUGHAN, E. K., 134
 VERBOOM, W. C., 398
 VICKERY, H. B., 354
 VIEHMEYER, G., 214, 226
 VIENNOT-BOURGIN, G., 148
 VINCENT, A. E., 86
 VOLK, G. M., 247
 VOLLEMA, J. S., 417, 418, 425
 VOSKRESENSKAJA, N. P., 276
 VOTH, V., 109

 WALKER, J. C., 282, 283, 301
 WALKER, T. W., 47
 WALLACE, J. M., 377
 VAN DER WANT, J. P. H., 257

 WARE, L. M., 248
 WARNE, L. G. G., 250
 WARREN, G. F., 217, 219, 222,
 223, 224, 241e
 WASON, E. J., 189
 WASSCHER, J., 39
 WATSON, M. A., 251
 WEBER, W. W., 333
 WELLENSIEK, S. J., 61
 WELLS, D. G., 282
 WERNER, H. O., 449
 WEST, T. F., 471
 WHITEMAN, T. M., 438
 WILCOX, E. B., 281
 WILCOX, J. C., 91
 WILCOX, W. W., 343u
 WILKINSON, E. H., 343v
 WILLIAMS, C. F., 103
 WILLIAMS, W. F., 343h
 WILSON, R. G., 350
 WILSON, W. F., 228
 (WINDSOR TOBACCO SUBSTATION),
 343a
 WIT, J., 46
 WITHNER, C. L., 294
 WITHROW, A. P., 295
 WITHROW, R. B., 295
 WITTWER, S. H., 277, 293
 WOKES, F., 453
 DE WOLFE, T. A., 385
 WOODBRIDGE, C. G., 123
 WOODSIDE, A. M., 159
 (WRESSELL, H. B.), 244
 WRIGHT, R. C., 438

 YANKOVITCH, L., 62
 YARWOOD, C. E., 259
 YAXLEY, MUSHROOM RESEARCH
 ASSOCIATION LTD., 482
 YOUNG, R. E., 343w
 YUNCKER, T. G., 435g

 ZAMORA, F. S., 389
 ZAPPE, M. P., 1
 ZELENSKAJA, E. D., 87
 ZILVA, S. S., 343e
 ZIMMERMAN, J. F., 343c, 343x
 ZIMMERMAN, P. W., 374k
 ZIMMERMANN, J., 165
 ZIRKLE, C., 5
 ZOBEL, M. P., 271
 ŽUČKOV, N. G., 66

COMMONWEALTH AGRICULTURAL BUREAUX LIAISON OFFICERS

United Kingdom:

W. R. BLACK, M.B.E., Ministry of Agriculture and Fisheries, 1/4 Cambridge Terrace, Regent's Park, London, N.W.1.

Canada:

H. L. TRUEMAN, Office of the Deputy Minister, Administration Service, Dominion Department of Agriculture, Ottawa.

Australia:

A. B. CASHMORE, M.Sc., Commonwealth Scientific and Industrial Research Organization, Information Service, 314 Albert Street, E. Melbourne, C.2.

New Zealand:

N. A. MARRIS, M.Sc., Department of Scientific and Industrial Research, Wellington, C.1.

Union of South Africa:

J. L. SERFONTEIN, M.A., Department of Agriculture, Union Buildings, Pretoria, Transvaal.

Southern Rhodesia:

Dr. J. C. F. HOPKINS, D.Sc., Department of Agriculture and Lands, P.O. Box 25, Causeway, Salisbury.

India:

SARDAR BAHADUR SIR DATAR SINGH, Vice-Chairman, Indian Council of Agricultural Research, Keeling Road, New Delhi.

Colonies:

G. F. CLAY, C.M.G., O.B.E., M.C., Agricultural Adviser to the Secretary of State for the Colonies, Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1.

Sudan:

THE CHIEF OF THE RESEARCH DIVISION, Department of Agriculture and Forests, Wad Medani.

Ceylon:

R. T. RATNATUNGA, B.Sc.(Hons.) London, Assistant Secretary, Ministry of Agriculture and Lands, Colombo.

OFFICIAL CORRESPONDENTS OF THE COMMONWEALTH BUREAU OF HORTICULTURE AND PLANTATION CROPS

Australia:

Dr. W. A. T. SUMMERVILLE, D.Sc., Director, Division of Plant Industry, Department of Agriculture and Stock, Brisbane, and Mr. F. M. READ, Department of Agriculture, Melbourne.

Bahamas:

THE COLONIAL SECRETARY, Nassau.

Barbados:

THE BOTANIST, Department of Science and Agriculture.

Basutoland:

DIRECTOR OF AGRICULTURE, Department of Agriculture, Maseru.

Bechuanaland:

CHIEF AGRICULTURAL OFFICER, Department of Agriculture, Mafeking.

Bermuda:

DIRECTOR OF AGRICULTURE, Agricultural Station, Paget East.

British Guiana:

DIRECTOR, Department of Agriculture, Georgetown.

British Honduras:

AGRICULTURAL OFFICER, Post Box 149, Belize.

Canada:

DOMINION HORTICULTURIST, Division of Horticulture, Central Experimental Farm, Ottawa.

Ceylon:

DIRECTOR OF AGRICULTURE, Department of Agriculture, Peradeniya.

Cyprus:

DIRECTOR OF AGRICULTURE, Department of Agriculture, Nicosia.

Eire:

Prof. G. O. SHERRARD, A.R.C.Sc.I., Albert Agricultural College, Glasnevin, Dublin.

Falkland Islands:

COLONIAL SECRETARY, Port Stanley.

Federation of Malaya:

DIRECTOR OF AGRICULTURE, Department of Agriculture, Kuala Lumpur.

Fiji:

Mr. M. D. FRENCH-MULLEN, Agricultural Officer, Department of Agriculture, Suva.

Gold Coast:

DIRECTOR OF AGRICULTURE, Department of Agriculture, Accra.

Hong Kong:

Mr. T. G. STRANGEWAYS, M.A., Senior Agricultural Officer, Agricultural Department, Hong Kong.

India:

DIRECTOR, Indian Institute of Fruit Technology, Delhi.

Jamaica:

CROP DEVELOPMENT OFFICER, Department of Science and Agriculture, Kingston.

Kenya:

Mr. T. H. JACKSON, Dip. Hortic., Agricultural Officer (Horticulture), Fruit Experiment Station, P.O. Molo, Kenya.

Leeward Islands:

AGRICULTURAL SUPERINTENDENT, Department of Agriculture, Antigua.

Mauritius:

BOTANIST, Department of Agriculture, Mauritius.

New Zealand:

THE DIRECTOR, Horticulture Division, Department of Agriculture, P.O. Box 3004, Wellington.

Nigeria:

DIRECTOR OF AGRICULTURE, Ibadan.

North Borneo:

Mr. J. W. JOLLY, Director of Agriculture, Sandakan.

Northern Rhodesia:

DIRECTOR OF AGRICULTURE, Mazabuka.

Nyasaland:

Mr. C. C. WEBSTER, Senior Agricultural Officer, c/o Dept. of Agriculture, Zomba.

Seychelles:

DIRECTOR OF AGRICULTURE, Department of Agriculture, Victoria, Mahé.

Sierra Leone:

DIRECTOR OF AGRICULTURE, Department of Agriculture, Njala, Mano.

Somaland:

VETERINARY AND AGRICULTURAL OFFICER, Department of Agriculture, Berbera.

Southern Rhodesia:

GOVERNMENT HORTICULTURIST, Department of Agriculture, Salisbury.

St. Helena:

THE AGRICULTURAL AND FORESTRY OFFICER, Isle of St. Helena.

Sudan:

DIRECTOR OF AGRICULTURE AND FORESTS, Khartoum.

Swaziland:

PRINCIPAL VETERINARY AND AGRICULTURAL OFFICER, Department of Agriculture, Mbabane.

Tanganyika:

Mr. F. R. SANDERS, Lyamungu, Moshi.

Trinidad:

DIRECTOR OF AGRICULTURE, Department of Agriculture, Port of Spain.

Uganda:

SENIOR BOTANIST, Department of Agriculture, Entebbe.

Union of South Africa:

SENIOR HORTICULTURIST, P.O. Box 994, Pretoria.

Windward Islands:

Grenada: SUPERINTENDENT OF AGRICULTURE, Department of Agriculture, St. George.

St. Lucia: AGRICULTURAL SUPERINTENDENT, Department of Agriculture, Castries.

St. Vincent: AGRICULTURAL SUPERINTENDENT, Department of Agriculture, Kingston.

Zanzibar:

DIRECTOR OF AGRICULTURE, Department of Agriculture.

INDEX

H.A. Vol. 20. No. 2.

N.B.—Brackets round the name denote that this person, although not the author, was directly or indirectly concerned with the article.

- ABDULLAEV, A. G., 991
 ÅBERG, B., 812
 ABRAHAM, P., 1124
 ACHARYA, C. N., 809
 ACKER, R. M., 976
 ADAM, D. B., 1025
 ADAMS, A. F. R., 855
 AGNIHOTRI, B. N., 1045a, 1128
 (AGRICULTURAL RESEARCH INSTITUTE, PRETORIA), 1195
 AKELEY, R. V., 959m
 ALBERT, A. R., 685
 ALBRECHT, W. A., 859
 ALDRICH, D. G., 1014
 ALI, M. A., 959a
 (AMERICAN PHYTOPATHOLOGICAL SOCIETY, FUNGICIDE COMMITTEE), 750
 AMMAL, E. K. J., 987a
 ANAGNOSTOPOULOS, P. T., 574
 ANDERSON, E., 1151
 ANDERSON, E. G., 796a
 ANDERSON, P. J., 924, 931, 935
 ANDERSSON, F. G., 1194
 ANON., 529, 533, 535a, 557, 565, 603, 844, 847, 881, 884, 960, 974, 1021, 1059, 1060, 1061, 1074
 ANTHON, E. W., 672, 721
 ARK, P. A., 962
 ARNON, D. I., 523
 ARRÓNIZ, C., 799
 ATKINSON, F. E., 1144
 ATKINSON, J. D., 870
 AUDUS, L. J., 788
 AVANZI, M. G., 854
 AYERS, A. D., 804
 AZAD, R. N., 871
 BADGETT, C. O., 959b
 BAGLEY, F. D., 1075
 BAIN, F. M., 996
 BAKER, W., 959c
 BAKKER, H. C., 675
 BĂLĂNESCU, G., 953
 BALAŠOV, P. K., 553
 BANDYOPADHYAY, K. S., 1111
 BANGA, O., 825
 BARANOV, E. I., 669
 BARBADOS, BRITISH WEST INDIES CENTRAL SUGAR CANE BREEDING STATION, 1169, 1170
 BARBIER, G., 665
 BARNES, H. F., 748
 BARSKIL, JA. S., 670
 BARTON-WRIGHT, E. C., 945
 BARTRAM, R., 689, 772
 BASKIN, A. D., 659
 BATJER, L. P., 579
 BAUDEWIJN, J., 538
 BAUMANN, H., 525
 BEAR, F. E., 806
 BECK, G. E., 969
 BECKER, M. H., 810
 BEELTJE, E. J., 1152
 BENEDICT, H. M., 956
 BENSON, N. R., 588
 BERGER, K. C., 864
 BETZEMA, J., 895
 BHATTACHARYA, S. C., 995, 1003, 1004, 1005, 1006, 1012
 BIERI, F., 709
 BILLARDON, R., 1141
 BIOLOGISCHE ZENTRALANSTALT BRAUNSCHWEIG (GERMANY), 649
 BIRAGHI, A., 680
 BISHOP, L. R., 946
 BITTERS, W. P., 1007
 BLACKMAN, G. E., 786, 787, 796b
 BLIGH, R. D. L., 543
 BLODGETT, E. C., 683
 BLONDEL, L., 992
 BLUMER, S., 678
 BODENHEIMER, F. S., 819
 DE BOER, G., 1152
 BOHART, G. E., 765
 BOIS, E., 987b
 BOJARINCEV, F., 534
 BOLLE, A. W., 586
 BOLLEN, W. B., 690
 BOLLI, M., 577
 BOREL, E., 1066
 BORG, A., 723
 BORGMAN, H. H., 626
 BOTKIN, C. W., 959j
 BOTTGER, G. T., 761, 762
 BOUGARD, M., 1140
 BOVEY, P., 737
 BOWER, C. A., 807
 BRAAK, H. R., 1130a
 BRANAS, J., 635
 BRANNON, D. H., 772
 BREAKY, E. P., 719
 BREWER, H. C. (Editor), 1154
 BRILL, J. E., 883
 BRITISH WEST INDIES CENTRAL SUGAR CANE BREEDING STATION, BARBADOS, 1169, 1170
 BROWN, J. B., 589
 BROWN, R., 796c
 BROWNE, F. S., 631
 BRYNER, W., 581
 BULLOCK, R. M., 656
 BUREAU OF SUGAR EXPERIMENT STATIONS, QUEENSLAND, 1171
 BURKHOLDER, W. H., 856
 BURMISTROVA, N. D., 596
 BURRELL, A. B., 770
 BURRIS, R. H., 530, 535k
 BURSTRÖM, H., 535b
 BURTCH, L. M., 823
 BUTLER, E. J., 1155
 BUZZI, L., 542
 BYKOVSKII, V. JA., 802
 BYNUM, E. K., 1119
 CADMAN, C. H., 611
 CALDER, A. J., 959d
 CALLBECK, L. C., 912
 CAMPBELL, G. K. G., 1077
 CAMPBELL, J. C., 886, 914
 CANADA DEPARTMENT OF AGRICULTURE, 1172
 CAREW, H. J., 852
 CARLSEN, E. W., 1132
 CARLTON, R. A., 1040
 CARNCROSS, J. W. (Editor), 865
 CARNE, W. M., 652
 CARPENTER, J. B., 1095
 CARTER, C. L., 959d
 CARTIER, R. D., 779
 CASTORINA, L., 582
 CATION, D., 764
 CATONI, G., 655
 CEHOMSKAJA, V. M., 1000
 CERNUDA, C., 1149
 CEYLON RUBBER RESEARCH SCHEME, 1173
 CEYLON TEA RESEARCH INSTITUTE, 1191
 CHABANNES, J., 665
 CHAMBERLIN, F. S., 938
 CHANCE, B., 959e
 CHANDLER, S. C., 729
 CHANDLER, W. H., 1156
 CHAPMAN, H. D., 1011
 CHAPOT, H., 1031
 CHAPRON, R., 621
 CHARLEY, V. L. S., 1157
 CHARPENTIER, L. J., 1119
 CHATTERJEE, R., 952
 CHEEMA, G. S., 839, 988
 CHEESMAN, E. E., 1050
 CHEN, L. H., 1034
 CHESHUNT EXPERIMENTAL AND RESEARCH STATION, 1174
 CHEVALIER, A., 998
 CHIESA MOLINARI, O., 1158
 CHILDS, L., 717
 CHOLNOKY, B. J., 822
 CHOPRA, J., 1101
 CHOU, C. Y., 1033, 1034
 CHOUDARD, P., 511
 CHOUDHURY, S., 1127
 CHOUDHURY, S. D., 1003, 1004

- CHRIST, E. G., 728
 CHRISTIE, G. A., 1116
 CHUPP, C., 852
 CICCARONE, A., 1057
 CIFFERRI, R., 1027, 1051, 1053, 1055, 1057
 CLAUSEN, R. T., 501
 CLAYTON, C. N., 650
 CLAYTON, E. E., 929
 CLORE, W. J., 808
 CLULO, G., 662
 COHEN, A., 1009
 COLONIAL INSECTICIDES COMMITTEE, LONDON, 1175
 COLONIAL PRODUCTS RESEARCH COUNCIL, 1176
 COLWELL, W. E., 927
 COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, AUSTRALIA, 1178
 CONNECTICUT, TOBACCO SUBSTATION, WINDSOR, 1201a
 COOKE, G. W., 902
 COOMBE, B. G., 664
 CORNUZ, L. A., 987c
 COUDERC, V., 658
 COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, AUSTRALIA, 1177
 COX, J. A., 741
 COX, R. S., 845
 CRAFTS, A. S., 1159
 CRANDALL, B. S., 773
 CRITCHFIELD, H. J., 943
 CUMBER, R. A., 818
 CURRIER, H. B., 1159
 CURTIS, D. S., 1017
 CUTHBERT, F. P., Jr., 834

 DAHL, E., 507
 D'AMATO, F., 854
 DARPOUX, H., 707
 DARROW, G. M., 608
 DAULATRAM, S. J., 1103
 DAVEL, H. B., 1195
 DAVID, P. A., 1056
 DAVIS, E. A., 516
 DAVIS, G. B., 898, 959f, 959g, 959h
 DAVISON, J. R., 590
 DE, B. N., 1085
 DEAN, F. P., 718
 DELONG, G. E., 959i
 DEPARTMENT OF AGRICULTURE FOR SCOTLAND, 546, 622, 776a
 DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, FOOD INVESTIGATION, 1133
 DERMEN, H., 608
 DERMINE, E., 630
 DERMOTT, W., 838
 DHARESHWAR, S. R., 839
 DICKER, G. H. L., 727
 DICKSON, R. C., 849
 DIMITMAN, J. E., 1023
 DIMOCK, A. W., 964
 DION, A., 779
 DIOS, R., 959i
 DIXON, R. D., 535c
 DOUTT, R. L., 735
 DRIGGERS, B. F., 728
 DUCHARME, E. P., 1022

 DUISBERG, P. C., 959j
 DUNEGAN, J. C., 692, 710
 DUNN, L. E., 900
 DUTT, S., 1042
 DUTTA, S., 995, 1003, 1004, 1005, 1006, 1012
 DUVAL, G., 1069
 DYER, R. A., 1196

 EAMES, A. J., 791, 792
 EATON, J. K., 661
 EBELING, W., 1030
 EBIHARA, T., 640
 EDMUNDSON, W. C., 959s
 EDWARDS, G. R., 897
 ELLIOTT, J. T., 1130b
 ELLIS, D. E., 845
 EMGE, R. G., 872
 Emsweller, S. L., 975
 EREMEEV, G. N., 923
 EVREINOFF, V.-A., 606

 FANG, C., 1033
 FARWELL, F. E., 794
 FERGUSON, H., 1107
 FERGUSON, W., 782
 FERNIE, L. M., 512
 DE FERRIÈRE, J. F., 637
 FIDLER, J. C., 1138
 FIJI DEPARTMENT OF AGRICULTURE, 1201b
 FIKRY, A., 713
 FINK, H. C., 776b
 FINLEY, J., 776c
 FIORITO, G., 599
 FISCHER, H., 709
 FLETCHER, L., 944
 FLORIDA, SOIL SCIENCE SOCIETY, 942
 FOOD INVESTIGATION, DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, 1133
 FORBES, R. B., 535d
 FORD, C. H., 964
 FOREST SERVICE, U.S. DEPARTMENT OF AGRICULTURE, 1160
 FOSTER, A. C., 763
 FOSTER, C. B., 1110
 FOSTER, H. H., 697, 714
 FOWLER, R. L., 1052
 FRANKLIN, DEL. F., 598
 FRICK, K. E., 731
 FRITZSCHE, R., 578
 FULTON, B. B., 650
 FULTON, R. A., 980
 FULTS, J. L., 959o
 (THE FUNGICIDE COMMITTEE OF THE AMERICAN PHYTOPATHOLOGICAL SOCIETY), 750
 GAGNEBIN, F., 853
 (GAHM, O. E.), 881
 GALINSKY, I., 959k
 GALLE, F. C., 986
 GALLEGLY, M. E., Jr., 873, 874
 GALLEGO, M. F. L., 1032
 GAMMON, N., Jr., 535d
 GAMMON, W. M., 789
 GANDHI, S. R., 1036
 GANGULY, B. D., 1037, 1078
 GARGA, R. P., 871
 GARRISS, H. R., 650
 GARVIN, J. W., 796d
 GASCON, J.-P., 1091

 VAN GEEL, J. D. W., 895
 GELJFANDBEIN, P. S., 593
 GERHARDT, F., 758
 GERMAIN, R., 1130c
 GERTLER, S. I., 753, 761, 762
 GESLIN, H., 667
 GHESQUIÈRE, J., 733
 GIESE, H., 532
 GILLARD, S. O., 1038
 GINAI, M. A., 552
 GOLDACRE, P. L., 517
 GOLDSWORTHY, M. C., 710, 753, 763
 GONZENBACH, C., 908
 GOODEY, T., 776d
 GOUDIE, A. G., 584
 GOULD, C. J., 830, 970, 975
 GREBINSKII, S. O., 921, 961
 GREEN, D. E., 965
 GREEN, E. L., 751
 GRIGSBY, B. H., 785
 GUILLERMO ORTIZ, R., 922
 GUKASJIAN, A. S., 555
 GÜMMER, G., 987d
 GÜNTHART, E., 916
 GURLEY, A. S., 833
 GUSTAFSON, F. G., 514
 GUTHRIE, J. D., 1039
 GUTIERREZ, M. E., 919
 GUTIEV, G. T., 1044

 HAARER, A. E., 585
 HAAS, A. R. C., 1014, 1020
 HABRAN, R., 615
 HADIWIDJAJA, T., 1126
 HÄFLIGER, E., 766
 HAGAR, A. W., 796d
 HAGEN, K. S., 735
 HALLAIRE, M., 667
 HALLEMANS, A., 749
 HALLER, H. L., 776e
 HAMNER, C. L., 518
 HARDER, R., 987d
 HARE, W. W., 959v
 HARLEY, V. F., 526
 HARMSÉN, G. W., 509
 HARRIS, R. V., 686
 HASKELL, G., 863
 HASSID, W. Z., 1153a
 HATT, H. H., 832
 HAYES, W. B., 993
 HAYWARD, H. E., 804
 HELSON, V. A., 780
 HENDERSON, S. M., 532
 HENDRICKSON, A. H., 591, 592
 HENRY, P., 1091
 HES, J. W., 1109
 HEUBERGER, J. W., 698
 HEWLETT, M. A., 965
 HIBON, E., 1129
 HIDAKA, Y., 850
 HILBORN, M. T., 711
 HILKENBÄUMER, F., 568, 1161
 HILL, A. G. G., 1077
 VON HOFSTEN, C. G., 796e
 HOLLOWAY, T. E., 1117
 HOLLY, K., 787
 HOLMES, F., 783
 HOLWILL, P. J. A., 573
 HOME, J. M., 674
 HOOD, J. J., 698
 HORBER, E., 725
 HORNE, F. R., 797

HORTICULTURAL EDUCATION ASSOCIATION, 1179

HOWARD, H. W., 879, 880, 888

HOWE, O. W., 890

HUBER, G. A., 830

HUBERTY, M. R., 1015

HUDSON, J. P., 496

HUGHES, C. G., 1116

HULME, A. C., 1139

HUMMER, R. W., 790

HUS, P., 648, 704

HUXLEY, J., 1162

ILJIN, G. S., 920

(IMPERIAL CHEMICAL INDUSTRIES),

JEALOTT'S HILL RESEARCH

STATION, 502

INGRAM, J. W., 1119

ISAAC, I., 716

IVENS, G. W., 786

IYENGAR, B. R. Y., 1150

JACKS, H., 877, 878

JACOBONI, N., 576

JAKUŠKINA, N. I., 869

JANNONE, G., 740

JEALOTT'S HILL RESEARCH STA-

TION (I.C.I.), 502

JENSEN, D. D., 963

JOHANSEN, C., 719

JOHN, C. M., 1058, 1063

JOHNSTON, R. E., 604, 609

JONES, F. G. W., 836

JONES, J. O., 657, 838

JONES, P. A., 1064

JONES, S. G., 1155

JONES, W. W., 1013

JOSHI, N. V., 1123

JOSHI, S. G., 1123

JOSLYN, M. A., 1153a

JUCKER, H., 644a

JUHRÉN, M. C., 862

JUILLET, A., 868

KAR, B. K., 959 I

KARVATA, S., 905

KATYAL, S. L., 562, 1010

KEANE, F. W. L., 554

KELLER, K. R., 948

KELMAN, A., 875

KERVÉGANT, D., 1143

KESSLER, H., 666

KESSLER, J. L., 882

KHAN, K. F., 1087

KHANNA, K. L., 1096, 1097, 1111

KING, J. R., 1029

KING, T. H., 659

KINGDON-WARD, F., 1122

KIRIUKHIN, G., 746

KIRKPATRICK, H. C., 682

KIRSANINA, E. F., 921

KIŠPATIĆ, J., 824

KLECZKOWSKI, A., 677

KLINGMAN, G. C., 795

KLINKENBERG, C. H., 687

KLOSE, A. A., 1146

KNORR, L. C., 1022

KOLE, A. P., 910

KOSAREVA, JU., 558

KOVAČEVIĆ, I., 568

KOVAČEVIĆ, Z., 757

KOVALI, T. A., 1163

KRAMER, P. J., 1164

KRAUS, E. J., 987e

KREUTZER, W. A., 857

KRISHNAMURTHY, S., 1150

KRISHNAMURTI, C. R., 1145

KUHLMAN, G. W., 607, 613, 625,

644b

KÜKENTHAL, H., 972

KUNKEL, R., 959s

KUNTE, Y. N., 1001

KUROKAMI, T., 640

KVARACHELIA, N. T., 1043

LAL, K. N., 928, 1098

LANE, G. H., 909

LANSADÉ, M., 911

LASKARIS, T., 967

LATHROP, F. H., 711

LATUASAN, H. E., 1049

LAURITZEN, J. I., 1099

LAUSANNE HORTICULTURAL

RESEARCH STATION, 1180

LAWES AGRICULTURAL TRUST

(ROTHAMSTED), 1181

LEAR, B., 915

LEBICKAJA, K. A., 605

LECRENIER, A., 614

DE LEEUW-POLAK, B., 497

LEHR, J. J., 860

LEROY, J.-F., 1125

LEYENDECKER, P. J., Jr., 835

LI, C. S., 1002

LI, J. C. R., 948

LI, L. Y., 1002, 1033

LIBBY, W. C., 959m

LIEBERMAN, F. V., 765

LINDBERG, G., 1130d

LINDENBERGH, D. J., 509

LINDNER, R. C., 668

LINN, M. B., 872

LJUKOVA, L. A., 921

LÓPEZ, G. H., 1052

LOUSTALOT, A. J., 1149

LUCAS, G. B., 930

LUCE, W. A., 689

LUCHETTI, G., 654

LUCHINI, R., 867

LUGEON, A., 560

LYON, A. G., 879, 880

M.-L., H. [MARTIN-LEAKE H.],

793, 1105, 1112

MAAN, W. J., 771

MCALPIN, D. M., 1019

MCARTHUR, J. M., 768

THE MACAULAY INSTITUTE FOR

SOIL RESEARCH, 1182

(McCLELLAN, —.), 973

McCLEAN, A. P. D., 1115

McCLURE, T. T., 1041

McGEORGE, W. T., 660

McINTYRE, W., 611

McKINLAY, K. S., 743

MACLEAN, N. A., 971

MÄDE, A., 535e

MAHESHWARI, P., 535f

MALAN, E. F., 1076

MALLAMAIRE, A., 1067

MALLIK, P. C., 1037, 1078, 1086

MALTA DEPARTMENT OF AGRI-

CULTURE, 1183

MANN, A. J., 554, 567

MARCELLI, E., 959n

MARESCAL, G., 623

MARINUCCI, M., 575

MARKOV, N. V., 550, 559

MARKOVIČ, A. A., 966

MARR, J. C., 589

MARSHALL, J., 768

MARTIN, J. T., 754

MASON, C. L., 695

MASSACHUSETTS AGRICULTURAL

EXPERIMENT STATION, 1184

MAURER, K. J., 551

MAURON, —., 949

MAY, A. W. S., 736

MAYNE, J. E., 1113

MAYNE, W. W., 1065

MEEK, W. E., 531

VAN DER MEER MOHR, J. C., 940

MELTZER, J., 885, 895

MERFIELD, A. G., 535g

MERNY, G., 1089

MERRETT, D. C., 1019

MERZARI, A. H., 959p

METLICKIĀ, L. V., 1000

MEWISSEN, F., 571

MICHAELSON, M. E., 959o

MICHELMORE, A. P. G., 1130e

MICHURIN [MIČURIN], I. V., 1165

MIDDLETON, J. T., 962

MILBRATH, J. A., 684

MILDBRAED, J., 972

MILEŠKO, A. F., 548

MILLER, J. H., 688

MILLER, L. W., 734

MILLER, P. R., 646, 647, 934

MILLER, P. W., 690

MINATTA, M. J., 1029

MININA, E. G., 519

MINISTERIO DE AGRICULTURA E

INDUSTRIAS, COSTA RICA,

1106

MINISTRY OF AGRICULTURE, IRE-

LAND, 1201c

MINISTRY OF AGRICULTURE, LON-

DON, 858

MINSHALL, W. H., 780

MITCHELL, J. W., 513

MOLIN, K., 1130d

MOLINA B., L., 959x

MOLINA, J. S., 959p

MOLOTKOVSKIĀ, G. H., 563

MONIN, A., 583

MONTAGNE, J. T. W., 857

DE MONTGRÉMIER, H. A., 907

MOONEY, W. C., 933

MOORE, E. L., 930

MOORE, J. D., 685, 842

MOORE, J. G., 685

(MOORE, W. C.), 645

MOORE, W. C., 977, 987f

MOORE, W. D., 816

MORETTINI, A., 959q

MORGAN, W. L., 937

MORI, H., 851

MORRIS, D. S., 739

MORSTATT, H., 776f

MOSSOP, M. C., 730

MOTT, W. P., Jr., 981

VAN DEN MULIZENBERG, E. W. B.,

628

MULDER, D., 508, 705, 706

MULDER, E. G., 903

MÜLLER, F. P., 724, 742

MÜLLER-FEMBECK, J., 987g

MULLISON, W. R., 790

MUMFORD, D. C., 607, 613, 625,

644b, 810, 959f, 959g, 959h

MUNGER, F., 1045b

- MÜNSTER, J., 892
MURPHY, M. M., 535c
MURSELL, P., 600
MUSTAFA, A. M., 552
- NAIK, K. C., 800, 1073, 1080
NANCE, N. W., 646
NANDI, H. K., 1006
NANK, E. E., 986
NARAIN, R., 1042
NARASIMHAM, B., 1035
NARAYANA, G. V., 1063
NAUDE, T. J., 1197
NAYAR, T. G., 1148
NAZARETH, B., 839
NEDERLANDSCHE ALGEMEEN KEU-
RINGSDIENST VOOR BOOM-
KWEKERIJGEWASSEN, 556
- NEGRULI, A. M., 633
NEL, E. A., 866
NEL, R. I., 1198
NELSON, R., 951
NESTERENKO, G., 990, 1008
NESTEROVA, E. I., 831
NETTLEINGHAME, F., 983
NEWCOMER, E. J., 718
NICOLEA, H. G., 1158
NIEUWSTRATEN, J. P., 774
NIGERIA AGRICULTURAL DEPART-
MENT, 1185
NIKIŠIN, K. G., 673
NISHI, S., 848
NITSCH, J. P., 503
NOLAN, K., 760
NORTH CAROLINA AGRICULTURAL
EXPERIMENT STATION, 917
NORTH CENTRAL WEED CONFER-
ENCE [U.S.A.], 777
DE NYS, P. F., 651
- O'BRIEN, M., 934
OGILVIE, L., 815
OLNEY, V. W., 717
O'NEILL, W. J., 758, 759
VAN ORSHAEGEN, A., 624
ORTON, C. R., 662
OSBURN, M. R., 1028, 1090
OSMOND, D. A., 536
OSNICKAJA, E. A., 805
OSTROVSKAJA, L. K., 957
OVERLEY, F. L., 671
OZEROV, G. V., 558
OZOL, A. M., 643
- PADFIELD, C. A. S., 597
PAGE, A. B. P., 756
PALMER, R. C., 566
PANOV, M. A., 820
DE PAOLIS, D., 601a
PARKER, E. R., 1013
PAŠKARJ, S. I., 563
PATISSIER, J., 894
PEARSON, H. E., 1015
TER PELKWIJK, A. J., 703
PEMBROKE, E. A., 1130b
PENNINGSFELD, F., 506
PENNSYLVANIA AGRICULTURAL
EXPERIMENT STATION, 1186
PEPPER, B. B., 914
DE PERALTA, F., 941
PETERSEN, D., 764
PEYER, E., 638, 769
PHILP, G. L., 569
PHILP, J., 798
- PINTO DA FONSECA, J., 1070
PLESECKII, P. F., 564
POLLARD, A. G., 499
POOLE, C. M., 889
PORTJANKO, V. F., 636
PORUCKII, G. V., 899
POST, J. J., 803
POTTER, A. L., 1153a
POTTER, J. M. S., 545
POULOS, P. L., 696, 698, 699
PRENTICE, I. W., 686, 829
PRINCE, A. L., 806
PROČEČKO, E. P., 979
PROTASOVA, N., 846
PYRETHRUM AGRICULTURAL
RESEARCH ADVISORY COM-
MITTEE, 776g
- QUEENSLAND ACCLIMATISATION
SOCIETY, 1188
QUEENSLAND, BUREAU OF SUGAR
EXPERIMENT STATIONS, 1171
QUEENSLAND DEPARTMENT OF
AGRICULTURE AND STOCK,
1187
- RAMAN, K. R., 535h
RANDHAWA, G. S., 518
RANDHAWA, M. S., 985, 1081
RAO, K. H., 775
RAO, M. M., 1080
RAO, U. N., 541, 1147
RASMUSSEN, M. P., 1142
RAUCOURT, M., 911
RCHILADZE, I. T., 632
REA, H. E., 531
READ, F. M., 994
REDMAN, R. E., 601b
REED, C. A., 639
REED, J. P., 914
REFATTI, E., 681
REID, W. A., 927
REID, W. J., Jr., 834
REINDERS-GOUWENTAK, C. A.,
535i
REINKING, O. A., 1072
REITSMA, J., 1126
RENOUF, L. R., 715
RHOADES, H. F., 890
RICE, E. L., 515
RICHARDSON, A. M., 989
RICHHARIA, R. H., 801, 840
RILEY, E. A., 932
RILEY, H. P., 987h
RIPPER, W. E., 755
ROBB, O. J., 781
ROBERTI, D., 744
ROBERTS, H. A., 787
ROBERTS, J., 601c
ROBINSON, E., 796c
RODIN, R., 1047
RODRIGO, P. A., 1048
ROGERS, W. S., 618, 620
ROHRBAUGH, L. M., 515
ROLAND, G., 906
ROLFE, W. A., 544
ROLIK, R. P., 961
ROMANEVIČ, B. V., 745
RORK, C. L., 968
ROSENE, H. F., 524
ROSS, A. A., 999
ROST, C. O., 900
(ROTHAMSTED), LAWES AGRICUL-
TURAL TRUST, 1181
- ROUNCE, N. V., 1166
ROWAAN, P. A., 528
ROY, P. K., 1085
ROY, R. S., 801, 840
RUALA, T. S., 837
RUNGS, C., 726
- SALAMAN, R. N., 959r
SALMON, E. S., 947
SAMBAMURTY, K., 1084
SAMISCH, Z., 1009
SAMSON, R. W., 876
SANKARAM, A., 1100
SCARAMUZZI, G., 925
SCHAAL, L. A., 959o, 959s
SCHAEFER, L., 726
SCHEYS, —, 539
SCHMIDT, G., 720
SCHMIDT, L., 757
SCHNEIDER, F., 732
SCHNEIDER, H., 1023, 1024
VAN SCHOONNEVELDT, J. C., 1094
VAN SCHREVEN, D. A., 891
SCHROEDER, R. A., 859
SCHÜTZ, F., 617
SCHWEIZ. ZENTRALE F. OBSTBAU,
OESCHBERG, 540
- SCOTT, D. H., 608
SCRIVEN, W. A., 889
SEELEY, J. G., 978
SEHGAL, B. R., 1111
SEN, P. K., 527, 653, 1037, 1078,
1079, 1085, 1086
SETHI, W. R., 1082
SHARMA, S. L., 1096, 1097
SHERRED, P. R., 561
SHETTY, K. M., 1148
SHIRES, L. B., 959j
SHORT, G. R. A., 954, 955
SHRIVASTAVA, S., 1098
SIAENS, F., 708
SIEVERS, A. F., 776h
SIMMONS, J. E., 690
SIMON, G., 580
SINGH, M. P., 1001
SINGH, S. D., 1104
SIRONVAL, C., 627, 629
SKEPPER, A. H., 590
SMITH, A. J. M., 1137
SMITH, E., 1136
SMITH, E. J., 504
SMITH, F. F., 980
SMITH, H. C., 827
SMITH, O., 901
SMITH, P. G., 861
SMITH, R. J., 1018
SMITH, W. H., 572
SMOLÁK, J., 679, 700
SOETARDI, R. G., 1121
SOIL SCIENCE SOCIETY OF FLORIDA,
942
SOUTHWICK, L., 1167
SPERONI, H. A., 1026
SPIRINA, V. V., 610
SPRAGUE, R., 702
SQUIRES, P., 504
SRINIVASAN, A. R., 784
STADHOUDERS, P. J., 570
STAEHELIN, M., 752
STAHEL, [G.], 1054
STAHEL, M., 694
STAIRS, H. F., 778
STANBERRY, C. O., 601d
STANJKO, I. I., 979

- STEVENSON, F. J., 887, 959t
 STOCKING, C. R., 1159
 STODDARD, E. M., 712
 STOLL, K., 814
 STORER, T. I., 747
 STORRIE, D. L., 604, 609
 STORY, C. G., 1114
 STRACHAN, C. C., 1144
 STUART, N. W., 975
 STUMPF, P. K., 520, 521
 STUTZ, R. E., 530
 SUGAWARA, T., 813
 SUGIYAMA, T., 848
 SWANBACK, T. R., 924
 SWIFT CURRENT DOMINION
 EXPERIMENTAL STATION, SAS-
 KATCHEWAN, 1189
 SYLVÉN, E., 828
- TAI, E. A., 997
 TAKEMATSU, T., 640
 TANAKA, T., 500
 TANGANYIKA DEPARTMENT OF
 AGRICULTURE, 1190
 TARJAN, A. C., 842
 TAYLOR, C. F., 693
 TAYLOR, G. G., 767
 TEA RESEARCH INSTITUTE OF
 CEYLON, 1191
 TERMAN, G. L., 904
 TERRA, G. J. A., 1046
 TERRIER, C., 982
 TEWFIK, S., 520
 THAGUŠEV, N. A., 549
 THISTLE, M. W., 1131
 THOMAS, C. A., 950, 958
 THOMAS, K. M., 784
 THOMPSON, C. R., 595
 THOMPSON, G. E., 688
 THORNBERRY, H. H., 663
 THORNE, D. W., 823
 THUNG, T. H., 676
 TICQUET, C. E., 505
 TIDMAN, D. A., 722
 TIMONIN, M. I., 926
 TINCKER, M. A. H., 498
 TODD, F. A., 930
 TORIKATA, H., 691
 TOTH, S. J., 806
 TRINIDAD AND TOBAGO DIRECTOR
 OF AGRICULTURE, 1192
 TROCME, S., 665
 TROMP, L. A., 1108
 TRUOG, E., 864
 TULLOCH, J. B., 918
 TURNER, H. A., 602
 TURNER, J. F., 1135
 TURNER, J. S., 526
- TURNER, N., 913, 936, 939
 TURPIN, H. W., 1199
 TVET, M., 659
 TYAGI, R. S., 928
- UNESCO, 1168
 UNION OF SOUTH AFRICA
 DEPARTMENT OF AGRICUL-
 TURE, 1193
 (UNION OF S. AFRICA DIVISION
 OF AGRICULTURAL EDUCA-
 TION AND RESEARCH), 1199
 (UNION OF S. AFRICA DIVISION
 OF BOTANY AND PLANT PATH-
 OLOGY), 1196
 (UNION OF S. AFRICA DIVISION
 OF ENTOMOLOGY), 1197
 (UNION OF S. AFRICA DIVISION
 OF HORTICULTURE), 1194
 URI, J., 885
 U.S. DEPARTMENT OF AGRICUL-
 TURE, 1201d
 U.S. DEPARTMENT OF AGRICUL-
 TURE, FOREST SERVICE, 1160
 USMAN, S., 1068
- VANDERHASSELT, P., 539
 VANDERWAEREN, R., 641
 VANSSELL, G. H., 569
 VANWIJNGAERDEN, G., 1134
 VARAS, D., 1102
 VASUDEVA, R. S., 871
 VAUGHN, J. R., 969
 VAN VEEN, A. G., 1049
 VAN DER VEEN, R., 535j
 VEGIS, A., 522
 VEIHMAYER, F. J., 591, 592
 VELIČKO, L. V., 634
 VENKATANARAYANA, G., 1058
 VENKATARAMAN, T. M., 776i
 VENKATARAMANI, K. S., 841
 VENKATARATNAM, L., 1083
 VENKATASUBBAN, C. S., 1062
 VENNING, F. D., 959u
 VENTURA, E., 911
 VERNER, L., 547, 598
 VIDALON, C. G., 859
 VIEITEZ, M. G., 959i
 VILIKOVA-KANDAUROVA, V. F.,
 642
 DE VILMORIN, R., 619
 VINCENT, C. L., 808
 VINSON, J., 1118
 VOGEL, W., 732
 VOLLEMA, J. S., 1093
 VUITTENEZ, A., 707
- WADLEIGH, C. H., 807
 WAGENKNECHT, A. C., 535k
- WALKER, E. H., 1047
 WALKER, J. C., 873, 874, 959v
 WALLACE, J. M., 1023
 WALTHALL, A. M. J., 524
 WANDER, I. W., 1016
 WANN, F. B., 823
 WARD, J. M., 495
 WARNE, L. G. G., 811, 826, 843
 WATT, J. H., 612
 WEEKS, T. E., 682
 WEIL, L., 513
 WEIMER, J. L., 692
 WELLENSIEK, S. J., 821
 WELLS, D. G., 959v
 WELLS, J. S., 984
 WENT, F. W., 862
 (WESTERN PROVINCE FRUIT
 RESEARCH STATION), 1198
 WEYLAND, H., 972
 WHATLEY, F. R., 523
 WHEETING, L. C., 587
 WHITCOMB, W. H., 933
 WHITE, D. L., 594
 WHITEMAN, T. M., 893
 WIERSUM, L. K., 1092
 WILCOXON, F., 760
 WILLIAMS, C. G., 1088
 WILLIAMS, W. T., 959w
 WILSON, D. J., 618
 WILSON, E. E., 701
 WILSON, G., 1120
 WILSON, P. W., 530
 WIRWILLE, J. W., 513
 DE WIT, W., 537
 WOGLUM, R. S., 1045c
 WOLF, F. A., 933
 WOLTZ, W. G., 927
 WOOD, J. I., 647
 WOODRUFF, N., 913
 WRIGHT, N., 1071
 WRIGHT, R. C., 893
 WURGLER, W., 896
 WYMAN, D., 987i
- YANG, S. L., 1034
 YEPES, Y., E., 959x
 YERINGTON, A. P., 761, 762
 YOTHERS, M. A., 738
 YOUNG, P. A., 817
- ZALJADNOVA, A. P., 616
 ZANZIBAR PROTECTORATE
 DEPARTMENT OF AGRICUL-
 TURE, 1200
 ZELENSKAJA, O. A., 833
 ZELENSKIĭ, M. A., 564
 ZELLER, A., 510

INDEX

H.A. Vol. 20. No. 3.

N.B.—Brackets round the name denote that this person, although not the author, was directly or indirectly concerned with the article.

- AARON, I., 1428
 ABBISS, H. W., 1834, 1837
 ACREE, F., Jr., 1565
 ADAM, W. B., 2101
 AERTS, P.-F., 1539
 AHMAD, N., 1969
 AHMAD, S. I., 2044
 AINSWORTH, G. C., 1844
 ALDERFER, R. B., 1409
 ALDERMAN, W. H., 1286
 ALEKSANDROV, A. D., 1382, 1942
 ALJBENSKII, A., 1455
 ALLEN, E. F., 1596, 1603
 ALMEIDA, J. L. F. DE, 1302
 ALVAREZ GARCÍA, L. A., 1963
 ALVIM, P. DE T., 1236
 AMERICAN POMOLOGICAL SOCIETY, 2144
 AMMANN, G., 1809
 ANDERSON, E. J., 1323
 ANDERSON, P. J., 1779
 ANDRADE, A. C., 1764
 ANDRÉ, A., 1408
 ANDREIČENKO, K. I., 1831
 ANDRUS, C. F., 1633
 ANGELL, H. R., 1673
 ANON., 1217, 1220, 1259, 1267, 1293, 1345, 1346, 1355, 1364, 1365, 1369a, 1457, 1523, 1576, 1584, 1625, 1627, 1640, 1712, 1781, 1808a, 1833, 1865, 1877, 1878, 1911, 1937, 1951, 2003, 2019, 2040, 2058, 2059, 2103, 2109
 ANTHON, E. W., 1502, 1515
 ARENZ, B., 1744
 ARMAND, J. E., 1619
 ARMITAGE, H. M., 1882, 1968a
 ARNASON, A. P., 1611
 ARTSCHWAGER, E., 1412
 ARZE, L., 1727
 ASKEW, H. O., 1783
 ASQUITH, D., 1566a
 THE ASSOCIATION OF BRITISH INSECTICIDE MANUFACTURERS, 2122
 ATKINSON, R. G., 1758
 ATMORE, S., 1824
 AUBERT, P., 1352
 AUGUSTE, A., 1902, 1903
 AUSSET, C., 2091
 AVERETT, W. E., 1893
 AVERY, G. S., Jr., 1248, 1594b
 AYRES, A. S., 2052
 AZAD, R. N., 1742
 B., G., 1534
 BACHMANN, F., 1495
 BACKHAUSEN, J., 1443
 BACON, J. S. D., 1808h
 BACON, O. G., 1620
 BAILEY, C., 1294
 BAILEY, J. S., 1380, 1383, 1419a, 1436, 1556
 BAINES, R. C., 1930
 BAKER, L. C., 1641
 BAKER, R. S., 1246
 BAKER, W. A., 1686
 BAKER, W. L., 1949
 BAKKE, A. L., 1571
 BALD, J. G., 1748, 1754
 BALSÅRD, SWEDISH ASSOCIATION FOR FRUIT TREE BREEDING, 2145
 BAND, A. B., 1566b
 BANDURSKI, R. S., 1245
 BANDYOPADHYAY, K. S., 2085g
 BARBADOS DEPARTMENT OF SCIENCE AND AGRICULTURE, 2146
 BARKER, C., 2121a
 BARRET, J., 1301
 BARTELS, R., 1747
 BATES, G. H., 2123
 BAUER, A. H., 1607
 BEALE, F. A., 1589
 BECK, K., 1773
 BEER, A. A., 1799
 BEER, R. E., 1816
 BEHR, L., 1808b
 BENEDICT, H. M., 1807
 BENSON, A. A., 1247, 1274a
 BENTLEY, J. A., 1225
 BENTON, R. J., 1910
 BERAN, F., 1768
 BERCKS, R., 1752, 1808c, 1808d
 BERESNEV, A. E., 1340
 BERGER, C. A., 1808c
 BERGER, K. C., 1732 (BERGERON, T.), 1217
 BERKLEY, E. E., 2018
 BERNHARD, R., 1303, 1314, 1329
 BERWICK, E. J. H., 1973, 2038
 BESSA RIBEIRO, M., 1396, 1397
 BEVENUE, A., 1274b
 BHAT, N. R., 1970
 BHATTACHARYA, P. B., 2053
 BIASCO, A., 1304
 BICK, I. R. C., 2121b
 DE BIJL, D., 1387
 BIOLOGICAL COUNCIL, 2124
 BIOLOGISCHE ZENTRALANSTALT BERLIN-DAHLEM, 2175
 BIOLOGISCHE ZENTRALANSTALT BRAUNSCHWEIG, 2175
 BIRON, M., 1390
 BISHOP, H. J., 1662
 BISSET, K. A., 2125
 BITTNER, C. S., 1419b
 BLACKBURN, F. H. B., 2061
 BLAHA, J., 1320
 BLAIR, D. S., 1373
 BLASZYK, P., 1517
 BLAUVELT, W. E., 1873
 LORD BLEDISLOE, 1420
 BLENCOWE, J. W., 1714
 BLINOV, L. F., 1913
 BLISS, D. E., 1939
 BLONDEAU, R., 1330, 1331
 BODE, O., 1745
 BOGDANOVA, V. S., 1446
 BOHN, G. W., 1658
 BOKEN, E., 1424
 BÖMEKE, H., 1450, 1652
 BONDAR, G., 2041, 2042
 BONNER, J., 1215, 1229
 BONNER, W. D., Jr., 1231
 BONNET, J. A., 2054
 BORDEN, A. D., 1518
 BORDEN, R. J., 2055
 BORGET, M., 2039
 BORGMAN, H. H., 1387
 BORISENKO, T. T., 1414
 BORTELS, H., 1566c
 BORTHWICK, H. A., 1270
 BORZINI, G., 1538
 BOSCH, E., 1608
 BOSKOOP, *see* "DE PROEFTUIN"
 BOUBALS, D., 1451
 BOUCHARD, R. J. A., 1728
 BOUGARD, M., 1539
 BOURIQUET, G., 2072
 BOURLET, G., 2082
 BOURSNEILL, J. G., 1879a
 BOUYOUCOS, G. J., 1262
 BOVILL, E. W., 2137
 BOWER, C. A., 1622
 BOWMAN, F. T., 1427
 BOWMAN, G. F., 1985
 BRADBURY, D., 1578
 BRADFORD, F. C., 1327
 BRADFORD, R. H., 1327
 BRADLEY, W. G., 1686
 BRÉMOND, P., 1566d
 BRICHET, J., 1927
 BRIERLEY, P., 1858
 BRINDLEY, T. A., 1678
 BRITISH COLUMBIA DEPARTMENT OF AGRICULTURE, 2148
 BRITISH STANDARDS INSTITUTION, 1207
 BROADBENT, L., 1490, 1726, 1757
 BRÖKER, U., 1561
 BRONSON, T. E., 1675
 BROOKS, P. M., 1807
 BROOKS, R. M., 1459
 BROWN, G. B., 2121c

- BROWN, J. W., 1226
 BROWN, R., 1242
 BROWN, R. T., 1960
 VON BUCHWALD, A., 1986
 BUDAGOVSKII, V. I., 1309
 BUHL, C., 1642, 1645
 BULLOCK, R. M., 1321
 BUREAU OF ENTOMOLOGY AND
 PLANT QUARANTINE, DIVI-
 SION OF PLANT DISEASE CON-
 TROL, 1483
 BURKE, O. D., 1739
 BURRELL, A. B., 1536
 BURRELL, R. C., 1274x
 BURYHINA, E. K., 1647
 BUTLER, G. D., 1560
 BUTZ, W. T., 1209
 CABRERA, L., 1991
 CADMAN, C. H., 1477
 CAILLAVET, H., 1300
 CALDWELL, J., 1714
 CALMA, V. C., 2048
 CALVIN, M., 1274a
 CAMERON, A. E., 1915
 CAMP, W. H., 1274c
 CAMPBELL, J. A., 1634
 CANADA, DEPARTMENT OF AGRI-
 CULTURE, 1344, 2149
 CANADA, MINISTER OF AGRICUL-
 TURE, 2150
 CANADIAN COMMITTEE ON FOOD
 PRESERVATION, 2126
 CANRIGHT, J. E., 1879b
 CAPINPIN, J. M., 1976
 CAPÓ, B. G., 2016, 2054
 CAPOOR, S. P., 1715
 CARDINELL, H. A., 1338, 1528
 CAREY, L. C., 2088
 CARLSON, F. W., 1510, 1519
 CARLSON, R. F., 1307, 1583
 CAROLUS, R. L., 1701
 CARRINGTON, A. J., 2062
 CARTER, W., 2036
 CENTRE DE RECHERCHES DE LA
 LIGUE POMOLOGIQUE POUR
 LA DÉFENSE DU FRUIT BELGE,
 2151
 CERNUDA, C. F., 2073
 CHACRAVARTI, A. S., 2051, 2110
 CHAKRAVARTY, H. L., 2078
 (CHAMBERS, P. C.), 2152
 CHANDLER, S., 1526
 CHANDLER, W. H., 1876
 CHANDRASEKHARAN, S. N., 2085a
 CHAPMAN, H. D., 1920, 1968b
 CHAPMAN, R. K., 1675
 CHARLEY, V. L. S., 2127
 CHAUVIN, R., 1977
 CHAVAN, V. M., 1970
 CHEAL, W. F., 1479
 CHEESMAN, E. E., 1978
 CHERVENAK, M., 1923
 CHESIN, M., 1789
 CHILDERS, N. F., 1426, 2077
 CHILEAN IODINE EDUCATIONAL
 BUREAU, 2128
 CHILTON, S. J. P., 1588
 CHIN, C.-T., *see* CHUN-TEH CHIN
 CHISHOLM, R. D., 1496
 CHOTHIA, H. P., 1804
 CHOWDHURY, S., 1926
 CHRISTIAN, W. A., 2105
 CHUN-TEH, CHIN, 1770
 CHURCHILL, L. J., 1537
 CIFERRI, R., 1784
 CLAASSEN, C. E., 1808f
 CLARK, C. A., 1686
 CLARK, C. C., 1353
 CLARK, L. H., 2085b
 CLARK, V. L., 1812
 CLARKE, I. D., 2119
 CLARKE, W. S., Jr., 1428
 CLARKE, W. W., Jr., 1323
 CLEMENTE, L. J., 1654
 CLENDENNING, K. A., 1274d,
 1274e, 1274f
 CLORE, W. J., 1685
 THE COCONUT RESEARCH SCHEME
 (CEYLON), 2176
 COETZEE, W. H. K., 2108, 2112
 COHN, A. E., 1635
 COIT, J. E., 1898
 COLEMAN, N. T., 1241
 COLLINS, J. C., 1775
 COMPIN, A., 2086
 CONGRÈS NATIONAL DE LA PRUNE
 ET DU PRUNEAU, AGEN, 2167
 CONNORS, C. H., 1855
 CONTARDI, H. G., 1394
 COOK, H. A., 2117, 2118
 COOKE, F. C., 2005, 2129
 COOLEY, J. S., 1433
 COOMBE, B. G., 1487
 COON, B. F., 1795
 COONY, J. J., 1265, 1892
 COOPER, W. C., 2027
 COPELAND, E. B., 2085c
 CORBAZ, J., 1347
 CORNER, E. J. H., 2074
 COSMO, I., 1388, 1395
 COSTE, A., 1707
 COTTIER, W., 1566b
 COURSHÉE, R. J., 1441
 COVINGTON, H. M., 1411, 1419d,
 1808p
 COWART, F. F., 1404
 COX, J. A., 1489, 1494, 1503
 CRAFTS, A. S., 1568
 CRANDALL, B. S., 1949
 CRANDALL, P. R., 2121r
 CRANE, J. C., 1330, 1331
 CROSIER, W. F., 2099
 CROWDY, S. H., 1471
 CRUZ, S. R., 1268
 CRUZADO, H. J., 1952
 CUILLE, J., 1977
 CURTIS, D. S., 1896, 1968b
 CYPRUS DEPARTMENT OF AGRI-
 CULTURE, 2152
 D., 1618
 DANIEL, W. H., 1348
 DANIELSSON, B., 1287
 DANSK GARTNERFORENING, COP-
 ENHAGEN, 2153
 (DANVIG, A. M.), 2153
 DARPOUX, H., 1533
 DARROW, G. M., 1370, 1372, 1376
 DAVID, W. A. L., 1553
 DAVIDSON, J. H., 1582
 DAVIES, R. G., 1491
 DAVIS, G. N., 1666
 DAVIS, J. F., 1656
 DAVISON, J. R., 1427
 DAY, C. A., 1204
 DAY, L. H., 1485
 DEAN, E. P., 1508
 DEAN, F. P., 1566n
 DEBACH, P., 1968c
 DELGADO, R. F., 2077
 DELMAS, H. G., 1329
 DELONG, D. M., 1461
 DI DELUPIS, S. D., 1216
 DEMAREE, J. B., 1456
 DENNETT, R. K., 1808i, 1808j
 DEONIER, M. T., 1954
 DERMOTT, W., 1713
 DESHUSSES, L., 1347
 DESIKACHAR, N., 2121d
 DETAR, J. E., 1464
 DIACHUN, S., 1788
 DICKSON, R. C., 1808g
 DIETRICK, E. J., 1968c
 DIMOCK, A. W., 1818, 1819
 DIVISION OF ENTOMOLOGY, PRE-
 TORIA, 1206
 DIVISION OF PLANT DISEASE CON-
 TROL, BUREAU OF ENTOMO-
 LOGY AND PLANT QUARAN-
 TINE, U.S.A., 1483
 DOMINICA DEPARTMENT OF AGRI-
 CULTURE, 2154
 DOMINIK, T., 1317
 DORMAL, S., 1564
 DOTY, R. E., 2065
 DOUGHERTY, G., 1274h
 DOW, G. F., 1204, 1377
 DOWSON, W. J., 1835
 DRAGOZINSKAJA, V. M., 1298
 DRAPER, R. P., 1273
 DUDLEY, J. E., 1675
 DUNLAP, A. A., 1723
 DUNN, E., 1767
 DUPERREX, A., 1867
 DURMISIDZE, S. V., 2121e
 DURUZ, W. P., 2130
 DUSTIN, P., Jr., 1235
 EASTWOOD, H. W., 1981
 EDELMAN, J., 1808h
 EDMOND, J. B., 1953, 1957
 EGGENBERGER, W., 2090
 EIGSTIL, O. J., 1235
 EKBRANT, L., 1660
 ELEY, G. [Editor], 2131
 ELLIOTT, J. T., 2056
 ELLISON, J. H., 1736
 ELMORE, J. C., 1630, 1670
 EMILSSON, B., 1737
 EMMERT, E. M., 1703
 ENFIADZIAN, A., 1864
 ENNIS, W. B., Jr., 1578
 ENTOMOLOGICAL BRANCH, N.S.W.
 DEPARTMENT OF AGRICUL-
 TURE, 1609, 1610, 1933
 ENTRES, K., 1997
 EREMEEV, G. N., 1285
 ERNST, A., 1879c
 ESCAMILLA, G., 1986
 ESSELEN, W. B., Jr., 1556
 EUROPA PUBLICATIONS LTD., 2132
 EVANS, A., 1810
 EVANSON, J., 1613
 EVERIST, S. L., 1944
 EVREINOFF, V.-A., 1297, 1965,
 1966
 EWEN, E. S., 2121b
 FAIVRE-AMIOT, A., 1533
 FATTINGER, D., 1566e
 FAULKNER, R. P., 2133

- FAVARGER, C., 1822
FEDERACION NACIONAL DE CAFÉ-
TEROS DE COLOMBIA, 2009
FENWICK, D. W., 1772
FERRAND, M., 2029, 2030
FERWERDA, F. P., 2011
FESSENDEN, G. R., 1274g
FIDLER, J. C., 1710
FIESTER, D., 1887
FILINGER, G. A., 2100
FINDLAY, S. P., 1274h
FINLEY, J., 1530
FISCHER, —, 1500
FISCHER, G. W., 1472, 1480
FISHER, C. E., 1573
FISHER, F. E., 1934
FISHER, V. J., 1350
FLEMING, H. K., 1409
FLESCNER, C. A., 1968c
FLORY, W. S., Jr., 2121f
FOCAN, A., 1971
FOOD AND AGRICULTURE ORGAN-
IZATION OF THE UNITED
NATIONS, 1205, 2043
FORD, C. H., 1819
FORGEUR, G., 1466
FOSLER, G. M., 1870
FOX, C. J., 1794
FRANKLIN, D., 2106
FRANKLIN, E. W., 2087
FRAZIER, J. C., 1594a
FRAZIER, W. A., 1629, 1808i,
1808j
FREAR, D. E. H., 1544
FREE, M., 2134
DE FREITAS, A. G. B., 1392
FREY, W., 1521
FROLICH, E., 1885
FULTON, R. W., 1808k, 1808 l
FUNCK, E., 1866
FUNKE, H., 1652
FURR, J. R., 2027
FURTADO, C. X., 1274i, 2085d
GADD, C. H., 2069, 2085e
GAERTNER, E. E., 1574
GAGNARD, J., 1707
GALSTON, A. W., 1246
GALTIER, —, 1914
GANDARILLAS, H., 1727
GANDHI, S. R., 2033
GANE, R., 2121g
GARCIA MENDEZ, M. A., 2085f
GARNER, W. W., 1774
GARTNER, J. B., 1863
GAUMANN, E., 2135
GAWADI, A. G., 1248
GERBER, H., 1438
GERM, H., 1272
GERRETSEN, F. C., 1274j
GEVORKJAN, A. M., 1448
GIANFAGNA, A., 1879d
GILBERT, F. A., 1376
GILL, D. L., 1859
GIMINGHAM, C. T., 1766
GINSBURG, J. M., 1509, 1808m
GINSBURG, L., 1641
GLACKENS, I., 1291
GLASS, E. H., 2099
GLASSCOCK, H. H., 1713
GOYNE, R. W., 1221
GOHEEN, A. C., 1476
GOLDBERG, M., 1547
GOLDSCHMIDT, W. B., 2021
GOLDSMITH, E. D., 1227
GOLLMICK, F., 1393
GOLUBINSKII, I. N., 1326
GÓMEZ, L. A., 2016
GOODALL, D. W., 1989, 1994
GOODEY, J. B., 1847
GOPALAKRISHNAN, K. S., 2012
GOPALAN, K., 2001, 2075
GORDON, K. A., 1905
GORHAM, P. R., 1274d, 1274e,
1274f
GORLENKO, M. V., 1719
GORRISS, H. R., 1808n
GORTER, C. J., 1705
GOTTLIEB, D., 1532
GOUDREAULT, P., 1341
GRAINGER, J., 1421, 1542
GRANHALL, I., 1369b, 2145
LE GRAVEREND, E., 2136
GREEN, D. E., 1820
GREENSLADE, R. M., 1550
GREENWAY, P. J., 2020
GREENWOOD, M., 1990
GREGORY, F. G., 1237, 1238
GREGORY, P. H., 1753, 1838
GREWE, F., 1708
GREY, C. H., 1848
GRIFFITHS, J. T., Jr., 1934
GRIGGS, W. H., 1322
GROSS, C. R., 1361
GROVES, A. B., 1433
GRÜNSEIS, F., 1276
GUENTHER, E., 2121h
GUEST, P. L., 1920
GUHA, M. P., 1979
GUCKEL, J. E., 1879h
GUPTA, S. L., 1566f
GUSTAFSON, F. G., 1602
GUTIEV, G. T., 1945
GUYER, R. B., 1808q
GUYOT, H., 1883
GUZZINI, D., 1369c
HAARER, A. E., 1805, 2010
HAAS, A. R. C., 1890, 1894, 1895,
1917, 1919
HAGEMAN, R. H., 1562, 2077
HALL, W. C., 1661
HALLEMANS, A., 1616
HALLER, E., 1823
HALLER, H. L., 1565
HALLER, M. H., 1333
HALLIDAY, H. E., 1488
HALMA, F. F., 1885, 1888
HAMAR, N., 2104
HAMILTON, A., 1507
HAMILTON, R. G., 1967
HAMMARLUND, L., 1549
HAMNER, C. L., 1360, 1587, 1863
HANCE, F. E., 1590
HÄNSEL, H., 1672
HANSEN, H. N., 1830
HANSEN, L., 2155
HARDIN, L. J., 1274u
HARDING, P. L., 1936
HARDY, E., 1899
HARDY, F., 1972
HARLER, C. R., 2068
HARMON, F. N., 1398
HARRIS, W. B., 1432
HARTLEY, C. W. S., 2031
HARTLEY, G. S., 1550
HARTLEY, W., 1881
HARTMAN, H., 1888
HARTMANN, H. T., 1334
HARTZELL, F. Z., 1505
HARVEY, W. A., 1568
HASKELL, G., 1683
HASSAN, H. H., 1532
HATCHER, E. S. J., 1224
HATCHER, J. T., 1254
HATHFIELD, M. R., 1765
HATHAWAY, W. B., 1872, 1873
HAUSCHILD, I., 1740, 1746
HAUT, I. C., 1384
HAWTHORN, L. R., 1273
HAYNE, D. W., 1528, 1531
HAYTER, C. N., 1664
HAZINA, E. P., 1651
HEAN, A. F., 1643
HEATH, O. V. S., 1240
HEIMSCH, C., 1694, 1695, 1696
HEINZE, K., 1755, 1808o
HELSON, G. A., 1754
HEMPHILL, D. D., 1706
HENDERSON, J. H. M., 1229
HENDRICKSON, A. H., 1354
HENDRIX, J. W., 1629, 1716
HENKE, F., 1682
HENRICI, M., 1274k
HEPBURN, G. A., 1662
HERNÁNDEZ, M. S., 1998
HERR, F., 1318
HES, J. W., 2060
HEWETSON, F. N., 1296
HEWITT, W. B., 1459
HEWLETT, M. A., 1820
HEY, G. L., 1615
HEYER, F., 1879e
HYBON, E., 2072
HIDDINK, G. J., 1516
HIELD, H. Z., 1916
HIGGINS, F. H., 1362
HILBORN, M. T., 1544
HILBRICH, P., 1558
HILKENBAUMER, F., 1316, 1336
HILL, R. G., Jr., 1384
HILLS, O. A., 1219
HINMAN, F. G., 1678
HINTZE, S., 2094
HIRST, F., 1371, 1595
HITCHINS, P. E. N., 1698
HOARE, A. H., 1281
HOARE, E. R., 1442
HODGE, W. H., 1961
HOEKSEMA, K. J., 1452
HOFFMAN, A., 1808f
HOFFMAN, J. C., 1633, 1634
HOFFMANN, F. H., 1796
HÖHN-OCHSNER, W., 1274l
HOLDRIDGE, L. R., 1984
HOLMES, E., 1614
HOLTUM, R. E., 1879f, 1879g
HOLZ, W., 1517, 1566g
HONEY, E. E., 1607
HONG KONG AGRICULTURAL DE-
PARTMENT, 2156
HOOD, M. L., 1263
HOOKER, W. J., 1760
HOPKINS, J. C., 1835
HORNE, F. R., 1600
v. HÖSSLIN, R., 1604
HOUGH, L. F., 1294
HOUSTON, F. G., 1274m
HOUTEN, J. G. TEN, 1566h
HOWARD, F. L., 1540
HOWES, F. N., 1211, 1212
HOWLAND, S. R., 1668

- HRUSCHKA, H. W., 2095
HUCKETT, H. C., 1655
HUGHES, C. G., 2047
HUGLIN P. 1451
HULBARY, R. L., 1778
HUMPHRIES, E. C., 1993
HUNTER, A. S., 1724
HUNTER, D., 1552
HUNTER, J. G., 1256
HUSEMANN, C., 1731
HUTTON, E. M., 1748, 1749
HUTTON, K. E., 1484
- IDE, L. E., 1808q
I.F.A.C., 2158
ILDIS, P., 2102
I.N.E.A.C., 2157
INGOLD, C. T., 1762
DE IRMAY, H., 2028
IVAŠENJIKO, A. A., 1803
- JACKSON, F. W., 1275
JACOB, A., 1255
JACOBS, P. B., 2120
JACQUES-FÉLIX, H., 2035
JAGOE, R. B., 1591
JAIVENOIS, A., 1339, 1467
JAKOWSKA, S., 1227
JAMAICA DEPARTMENT OF AGRICULTURE, 2159, 2160
- JANCKE, O., 1677
JANNE, E. E., 1854
JANSEN, L. L., 1215
JENKINS, J. M., Jr., 1808p, 1852
JENSEN, C. O., 2121i
JOHANNESSEN, G. A., 1697
JOHANSEN, G., 1482, 1763
JOHN, T. J., 2002
JOHNSON, F., 1480, 1843
JOHNSON, J., 1790
JOHNSON, L. R., 1771
JOHNSTON, C. J. R., 1931
JOHNSTON, M., 1591
JOHNSTON, S., 1481
JOHNSTONE, G. R., 1274n
JONES, H. A., 1666
JONES, I. D., 1555
JØRSTAD, I., 2140
JOSHI, B. C., 2121o
JOUIS, E., 2136
JOVER, H., 2032
JUDKINS, W. P., 1335
JUGANOVA, O. N., 1473
JULIEN, J. H., 2064
- KALMYKOV, S. S., 1415
KAR, J., 1733
KARUNAKARAN, K. C., 2111
KASERER, H., 1258
KAUFMAN, J., 2095
KEEPING, G. S., 1988
KEHL, F. H., 2066
KEHREN, L., 2115
KELLY, S., 1594b
KELLY, W. C., 1724
KELSHEIMER, E. G., 1566i
KENKNIGHT, G., 1665
(KENT, F. L.), 2124
KENTEN, R. H., 1274o
KENTUCKY AGRICULTURAL EXPERIMENT STATION, 2161
KENWORTHY, A. L., 1250, 1356
KHAN, A. A., 1880
KHANNA, K. L., 2051, 2053, 2085g, 2110
- KIDSON, E. B., 1702
KIELY, T. B., 1928
KIENHOLZ, J. R., 1472
KILBY, M. M., 2117, 2118
KING, H., 2121j
KING, K. M., 1611
KING, N. J., 2046
KING, T. A., 1603
KIRBY, R. S., 1814
KLEMENT, R., 1274p
KLEMM, M., 1679
KLINKER, J. E., 1690
KNAPP, R., 2178a
KNUST, H. G., 2057
KOBEL, F., 1369d, 1369e, 1440
(KOBEL, F.), 2172
KOHL, H. C., 1870
KÖHLER, E., 1746
KONDO, I. N., 1447
KOPETZ, L. M., 1729
KOPPIEN, P., 1452
KOROLEVA, N. I., 1511
KOVALEVA, T. N., 1381
KOZLOVA, E. N., 1649
KOZŁOWSKI, A., 1244
KRAAK, M., 1566h
KRAEVOI, I. M., 1693
KRAMER, A., 1808q, 2098, 2121q
KRETSCHMER, G., 1218
KROCHMAL, A., 1389
KROPAN, M., 2121k
KROTKOV, G., 1806
KUEHNER, C. L., 1369f
KULASH, W. M., 1793
KÜPPERS, H., 1316
KUZNECOV, V. V., 1299
- LACHMAN, W. H., 1580, 1581
LAL, K. N., 2049
LAL, T. B., 1743
LAMPITT, L. H., 1641
LANDOVSKÝ, F., 1598
LANGENAU, E. E., 2121h
LANGER, C. A., 1350
LANTZ, H. L., 1369g
LAPIÈRE, L., 1277, 1310
LAPLANTE, A. A., Jr., 1566j
LARUE, R. G., 1906
LAURIE, A., 1868, 1869, 1871
LAWRENCE, W. J. C., 1266
LEACH, R., 2008
LEE, W. A., 1209
VAN LEEUWEN, E. R., 1499
LÉONARD, J., 2085h
LERIA ESMORIS, J., 2016
(LESLIE, W. R.), 2163
LEWIS, R. D., 2121i
LHOSTE, J., 1551
LIAO, S. C., 1723
LIEBIG, G. F., Jr., 2141
LIENART, J.-M., 1999
LIGER, P., 1403
LILLIEROTH, C. G., 1737
LINDGREN, D. L., 1941
LINN, M. B., 1532
LISPEKAJA, A. D., 1646
LISAVENKO, M. A., 1278
LITTLE, L. D., 1824
LIVŠIC, I. Z., 1506
LLOYD, N. C., 1492
LOEWEL, E. L., 1290, 1366, 1435
LOOMIS, N. H., 1404, 1405
LOOMIS, W. D., 1274v
LORENZ, O. A., 1681
- LOOS, C. A., 2069, 2070
LOTT, W. L., 1419c
LUCE, W. A., 1437, 1464
LUCKWILL, L. C., 1358
LÜTHI, H., 2121m
LUTZ, J. M., 1954
LYLE, J. A., 1716
LYONS, F. B., 2106
- MCALPIN, D. M., 1909
MCALLAN, S. E. A., 1559, 1601
MCLEAN, A. P. D., 1922
MCDONALD, H., 1808r
MACGILLIVRAY, J. H., 1653, 1654, 1684
McGUIRE, D. C., 1700
MACHERAUCH, O., 1288
MACINTIRE, W. H., 1274u, 1787
MACINTOSH, D. L., 2100
MCKNIGHT, T., 1944
MACLAGAN, D. S., 1546
MAGIE, R. O., 1846
MAHLSTEDE, J. P., 1856
MAHMUD, K. A., 1808s
MAKAROV-KOŽUHOV, L. H., 1445
MALAN, E. F., 1897
MALENÇON, M. G., 1940
MALTSCHESKY, N., 1462
MANALO, G. D., 2081
MANIL, P., 1463
MANN, L. K., 1653, 1704
MANN, P. J. G., 1274o
MANSFELD, K., 1529
MANSON, G. F., 1611
MARCUS, O., 1808z
MARKIN, M. I., 1400
MARKWALDER, —, 1841
MARSH, R. H., 1274q
(MARSH, R. W.), 2124
MARSHALL, G. E., 1486
MARTIN, D., 1861, 2092
MARTIN, J. P., 1929
MARTYN, E. B., 2006
MARUDARAJAN, D., 1792
MASON, A. C., 1496
MATHESON, J. K., 2137
MATHON, C.-C., 1900
MATTHEWS, R. E. F., 1750, 1751
MAUCH, A., 1363
MAUME, L., 1408
MAURER, K. J., 1418
MAURITIUS DEPARTMENT OF AGRICULTURE, 2162
MAYNE, W. W., 2017
MEHL, R. P., 1824
MECARNEY, J. L., 1274z
MEDVEDEV, P., 1289
MEHL, S., 1566k, 1566l
MEHROTRA, O. N., 2049
MEIER, G., 1336
MEIFFREN, M., 1995
MENON, K. P. V., 2007
MENZEL, R., 1527
MERNY, G., 1982
MERRILL, G., 1295
VAN DER MERWE, J. H., 1274r
MEULI, L. J., 1956
MEYER, E., 1741
MEYER-HERMANN, K., 1501
MICHELbacher, A. E., 1512, 1620, 1721
MIDDLEKAUFF, W. W., 1512, 1676
MILBRATH, J. A., 1458
MILLER, H. N., 1846

- MILLER, J. C., 1957, 2097
 MILLER, P. R., 1612
 MILLINGTON, W. F., 1879h
 MILNER, W. M., 1860
 MINGES, P. A., 1704
 MINISTER OF AGRICULTURE, CANADA, 2150
 MINISTRY OF AGRICULTURE, LONDON, 1369h, 1597, 1617, 1808t
 MINSHALL, W. H., 1586
 M'INTOSH, T. P., 1725
 MIRONOV, E. V., 1648
 MIZEN, H., 1663
 MOCZARSKI, S. Z., 1543
 MODOR, V., 1802
 MOITREL, P., 2114
 MOLENAAR, A., 1353
 MONEY, R. W., 2105
 MOORE, F. J., 1813
 MOORE, M. H., 1469, 1470
 MOORE, R. M., 1569
 MOORE, W. C., 1422, 1813
 MORDEN DOMINION EXPERIMENTAL STATION, 2163
 MOREIRA SALLES, J., 1764
 MOREL, G., 1821
 MORETTINI, A., 1410
 MORGAN, D. T., Jr., 1650
 MOROFSKY, W. F., 1761, 1765
 MORRIS, R. C., 2013
 MORROW, E. B., 1419d, 1419e
 MORSTATT, H., 1566m
 MORT, C. H., 1312
 MOULTON, J. E., 1583
 MUIRHEAD, I., 1669
 MUKHERJEE, S. K., 2023, 2024, 2025, 2026
 MULDER, D., 1425
 MULLISON, E. G., 2084
 MULLISON, W. R., 2084
 MUNCIE, J. H., 1761, 1765
 MUNDKUR, B. B., 2138
 MURAKISHI, H., 1716
 MURPHY, M. M., 1404
 MUSHROOM RESEARCH ASSOCIATION LTD., YAXLEY, 2164
 MUZIK, T. J., 1907
 MYBURGH, A. C., 1513
 MYHRE, A. S., 1379
 NAALDWIJK RESEARCH STATION FOR FRUIT AND VEGETABLE CULTURE UNDER GLASS, 2165
 NAALDWIJK, SOUTH HOLLAND GLASS DISTRICT EXPERIMENTAL GARDEN, 2165
 NAIR, U. K., 2007
 NASH-WORTHAM, J. R. H., 1710
 NATARAJAN, S., 2085i
 NATIONAL INSTITUTE OF AGRICULTURAL ENGINEERING, 2177
 NATIONAL SHADE TREE CONFERENCE, 2166
 NATTRASS, R. M., 1717
 NEFF, M. S., 1959
 NEWCOMER, E. J., 1508, 1519, 1566n
 NEWMAN, J. V., 1882
 NICHOLS, L. P., 1607
 NICOL, J., 1996
 NIGAM, R. G. S., 1800
 NIGRELLI, R. F., 1227
 NILSSON, A., 1811
 NILSSON, E., 1689
 NILSSON, R., 1737
 NILSSON-LEISSNER, G., 1271
 NITSCH, J. P., 1214, 1385
 NORRIS, D. O., 1754
 NORTH, C. P., 1947
 N.S.W. DEPARTMENT OF AGRICULTURE, ENTOMOLOGICAL BRANCH, 1609, 1610, 1933
 NUTMAN, F. J., 2000
 NYASALAND PROTECTORATE DEPARTMENT OF AGRICULTURE, 2096
 NYLUND, R. E., 1808u
 O'BRIEN, M. J., 1612
 O'CONNOR, B. A., 1975
 OLDHAM, C. H., 2139
 OLLAGNIER, M., 2029, 2030
 OLSON, G., 1853
 O'NEILL, W. J., 1520
 ORCHARD, H. E., 1567
 ORLOV, F. K., 1369j
 ORLOVA, T. G., 1401
 O'ROURKE, E. N., Jr., 1959
 O'ROURKE, F. L., 1269, 1856, 1862, 1863
 OSBORNE, D. J., 1328
 OSTROUHOVA, N. V., 1325
 OVERLEY, F. L., 1321
 OWEN, H., 1996
 OWEN, J. H., 1667
 PAGÁN, C., 1562
 PAL, B. P., 1962
 PANDYA, K. C., 1800
 PANSARD, J., 2083
 PAPAIOANNOU, P., 1284, 1311
 PAREDES, L. A., 1986, 1987
 PARKER, M. W., 1270
 PARMELE, H. B., 2121i
 PATTABHIRAMAN, T. V., 2012
 PEARSON, C. E., 1208
 (PEDERSEN, K.), 2153
 PEIRIS, J. W. L., 1845
 LE PELLEY, R. H., 1566b
 PENMAN, H. L., 1222
 PENNINGSFELD, F., 1604
 PEPPER, J. O., 1814
 DE PERALTA, F., 1776
 PERRY, B. A., 1666
 PETRAHILEV, I., 1279
 PETTEY, F. W., 1577
 PEYER, E., 1449
 PEYNAUD, E., 1391
 PHILLIPS, R. P., 1588
 PICCO, D., 1493
 PIENAAR, A. J., 1572
 PILLSBURY, A. F., 1263
 PIMENIDES, A. C., 1394
 PIMENTEL, A. A. L., 1566o
 PITCHER, R. S., 1566p
 PLAKIDA, E. K., 1407
 PLANT, W., 1605, 1637, 1638
 PLUMMER, C. C., 1932
 POLLARD, L. H., 1273
 POPENOE, W., 1884, 1886
 PORTE, W. S., 1687
 PORTSMOUTH, G. B., 2070
 POSNETTE, A. F., 1990, 1992
 POTATO PRODUCTION IMPROVEMENT COMMITTEE, ALBERTA, 1734
 POTTER, G. F., 1960
 POTTER, T. E. K., 2062
 POWWER, A., 1429
 (PRADAIN, J.) *see* PANSARD, J.
 PRADHAN, S., 1566q
 PRASAD, S. N., 2053
 PRASADA, R., 1804
 PRATT, C., 1879i
 DUPREE, W. E., 2121v
 PRIMOST, E., 1711
 PRITCHARD, A. E., 1676, 1816
 "DE PROEFTUIN" TE BOSKOOP, 2147
 PUCKETT, R. F., 1807
 PUREWAL, S. S., 1599
 PUSSARD, R., 1504
 PY, C., 1968d, 2034
 PYRETHRUM BOARD OF KENYA, 2168
 RABAT, SERVICE DE LA DÉFENSE DES VÉGÉTAUX, 1925
 RABIDEAU, G. S., 1694, 1695, 1696
 RAMAKRISHNAN, K., 2076
 RAMAKRISHNAN, T. S., 2076
 RAMOS, F. V., 2048
 RAO, B. L., 2121d
 RAO, D. V. S., 1566z
 RAO, R. R., 2085i
 RAPPLEYE, R. D., 1650
 RASKI, D. J., 1518
 V. RATHLEF, H., 1866
 RATKOVICH, M., 1722
 RAUDNITZ, H., 1668
 RAUTERBERG, E., 1621
 RAVINDRANATH, V., 1566z
 READ, D. R., 1753
 REAÑO, M. C., 1976
 REATH, A. N., 1656
 REBOUR, H., 1430, 1918
 RECKENDORFER, P., 1557
 REECE, P. C., 2027
 RÉGNIER, R., 2136
 REICH, H., 1535
 REICHEL, M., 1336
 REITZ, H. J., 1935
 RENAUD, M., 1343
 RHODES, A., 1234, 1738
 RICE, E. L., 1233
 RICHARDS, A. V., 1908
 RICHARDSON, H. H., 1827
 RICK, C. M., 1692, 1808v
 RICKLI, E., 1402
 RIERA, A., 2054
 RIETSEMA, J., 1232
 RIGG, T., 1202
 RIGNEY, J. A., 1555
 RINGS, R. W., 1566r
 RIPPER, W. E., 1545, 1550
 RISBEC, J., 1997
 RITCHER, P. O., 1498
 ROBERTS, E. A. H., 2121n
 ROBERTS, H. D., 1386
 ROBERTSON, R. N., 2092
 ROBINSON, B., 1787
 ROBINSON, J., 1692
 ROBY, F., 1413
 RODRIGUES, A., 1980
 RODWELL, C. N., 1801
 DE ROPP, R. S., 1228, 1230
 ROSENSTEIL, R. G., 1816
 ROTOR, G., Jr., 1825, 1826
 ROUATT, J. W., 1758
 ROUNDS, M. B., 1891

- ROWELL, J. B., 1540
 ROY, A. C., 2085j
 ROY, S. C., 2121o
 RUEF, J. U., 1282
 RUNGS, C., 1815
 RUPRECHT, R. W., 1253
 RUSTIA, A., 1780, 1782
 RYGG, G. L., 2121p
 RŽEVKIN, A. A., 1948

 S., R., 2079
 S., W. F., 1832
 SALGADO, M. L. M., 2004
 SALYNSKIĭ, F. S., 1305
 SANFOURCHE, G., 1329
 SANNÉ, C., 1243
 SARAWAK DEPARTMENT OF AGRICULTURE, 2169
 SARFATTI, G., 1575
 ŠAŠIN, A. I., 1465
 SAYRE, C. B., 1636
 SCARAMUZZI, F., 1575
 SCARAMUZZI, G., 1791
 ŠČEPOTJEV, F. L., 1414
 SCHAEER, E., 1292
 SCHANDLER, H., 1251
 SCHARRER, K., 1274s
 SCHEIL, W., 1366
 SCHILDER, F. A., 1393
 SCHMID, E., 1274t
 SCHMIDT, T., 1566s
 SCHOMER, H. A., 1808x
 SCHÖNBERG, A., 1808w
 SCHÖNBRUNNER, J., 1570
 SCHOPP, R., 1678
 SCHØYEN, T. H., 2140
 SCHRADER, A. L., 2121t
 SCHREUDER, J. C., 1674
 SCHROEDER, C. A., 1947, 1964
 SCHWARTZ, E., 1769
 SCHWARTZE, C. D., 1379
 SCOTT, D. B., Jr., 1857
 SCOTT, D. H., 1376, 1478
 SCOTT, L. E., 2098, 2121q
 SEELEY, J. G., 1849, 1850
 SEGGAY, L., 1839
 SEIFRIZ, W., 2080
 SEN, B., 1950
 SENARATNA, J. E., 2085k
 SEPTROUX, J., 1213
 SERR, E. F., 1485
 SERVICE DE LA DÉFENSE DES VÉGÉTAUX, RABAT, 1925
 VAN SEVEREN, M. L., 2014
 SEVERIN, H. H. P., 1461
 SHAH, S. M. I., 1798
 SHANKS, J. B., 1868, 1869, 1871
 SHAW, F. R., 1560
 SHAW, H., 1491
 SHAW, J. G., 1932
 SHAW, W. C., 1566t
 SHAW, W. M., 1787
 SHEFFIELD, F. M. L., 2000
 SHOWALTER, R. K., 1808x
 SHREAD, J. C., 1497
 SIMMONDS, F. J., 1594c
 SIMONNEAU, P., 1264, 1902, 1903, 1904
 SIMPSON, D. E., 1542
 ŠIŇA, A., 1808w
 SINCLAIR, W. B., 2121r
 SINGH, H. B., 1962
 SISAM, J. W. B., 2143

 SITES, J. W., 1935
 SITTON, B. G., 1958
 SKLIAR, N. I., 1444
 SMALL, J., 1808y
 SMITH, C. F., 1555
 SMITH, C. M., 2107
 SMITH, C. T., 1380
 SMITH, E., 1333
 SMITH, H. H., 1777
 SMITH, H. S., 1968e
 SMITH, J. H., 1735
 SMITH, O., 1736
 SMOCK, R. M., 1361
 SNYDER, E., 1399
 SNYDER, W. E., 1875
 SÖDING, H., 1652
 SOENEN, A., 1423
 SOLODOVNIKOV, V. JA., 1912
 SOMERS, G. F., 1724
 SOÓS, I., 1566u
 DE SOUSA, A. T., 1980
 SOUTH HOLLAND GLASS DISTRICT EXPERIMENTAL GARDEN, NAALDWIJK, 2165
 SOUTY, J., 1313, 1315
 SPEYER, W., 1548, 1566v, 1624
 SPIRINA, V. V., 1289
 SPRENG, H., 1369d
 SREENIVASAN, A., 1631
 STADLMANN, A., 1324
 STAEHELIN, M., 1332
 STAFFORD, E. M., 1525
 STAHMANN, M. A., 1667
 STANKOVIĆ, D. M., 1359
 STANTON, D. J., 1702
 STAPP, C., 1759, 1808z
 STERN, W. T., 1851
 STEENBERG, F., 1424
 STEER, W., 1491
 STEINBERG, R. A., 1785
 STEINECK, O., 1729, 1730
 STEINER, G., 1566w
 V. D. STELT, L., 1369j
 STENSTRÖM, M., 2121s
 STERGES, A. J., 1274u
 STEVENS, F. D., 2050
 STEVENSON, G. C., 2045
 STEWART, W. S., 1916, 2093
 STEYER, M., 1823
 STITT, L. L., 1613
 STOCK, F. G., 1699
 STOFFELS, E. H. J., 1563
 STOLL, K., 1644
 STREETER, F., 1842
 STRICKLAND, A. H., 1996
 STRONG, M. C., 1720
 STRONG, R. G., 1489
 STRUCKMEYER, B. E., 1732
 STUART, N. W., 1852
 VAN STUIVENBERG, J. H. M., 1429
 STUMPF, P. K., 1274v
 SUDDS, R. H., 1308
 SUIRE, J., 1524
 SUNDARARAJ, D. D., 2085a
 SUNDAY, M. B., 1936
 SUŠICKĭ, L. A., 1541
 SUTCLIFFE, J. F., 1242
 SWANBACK, T. R., 1779
 SWEDISH ASSOCIATION FOR FRUIT TREE BREEDING, BALSÅRD, 2145
 SWEET, R. D., 1690
 SWEZEY, A. W., 1956
 SWINGLE, C. F., 1351

 SYLVESTER, E. S., 1756
 SYMON, J. A., 1725

 TALGERI, G. M., 1974
 TAMM, E., 1223
 TASCHENBERG, E. F., 1505, 1514
 TATARINCEV, A. S., 1325
 TAYAL, J. N., 1800
 TAYLOR, E. A., 1219
 TAYLOR, H. J., 1249
 (TEA RESEARCH INSTITUTE OF CEYLON), 2071
 TEMPLEMAN, W. G., 1234, 1579
 THELLMANN, W., 1709
 THIEM, H., 1566x
 THIMANN, K. V., 1231, 1593
 THIRUMALACHAR, M. J., 1566z
 THOMAS, I., 1766
 THOMAS, K. M., 2015
 THOMPSON, A. H., 2121t
 THOMPSON, P., 2113
 THOROLD, C. A., 1943
 THRUSTON, M. N., 1234
 TICQUET, C. E., 1260
 TILDEN, D. H., 2121u
 "THE TIMES," 2170
 TIMOFEEVA-SAHAROVA, H., 1454
 TKATCHENKO, B., 1453
 TODD, A. R., 2121b
 TOMPKINS, C. M., 1817, 1830, 1840
 TOMPOS, A., 1252
 TOPPING, E., 1967
 TORREY, J. G., 1593
 TOWNSEND, W. N., 1771
 TRELAWNEY TOBACCO RESEARCH STATION, 2171
 TSAO, T.-H., *see* TSUNG-HSUN TSAO
 TSUNG-HSUN TSAO, 1691, 1828
 TUBBS, F. R., 2067
 TUFTS, W. P., 1280, 1464
 TUKEY, H. B., 1307, 1360
 TULJŽENKOVA, F. F., 1688
 TURJANSKIĭ, G. F., 1406
 TURK, L. M., 1348
 TURNBULL, J., 1374
 TURRELL, F. M., 1923, 1924

 ULRICH, R., 2089
 U.S. BUREAU OF AGRICULTURAL ECONOMICS, 1938
 U.S. DEPARTMENT OF AGRICULTURE, 1376
 [U.S. DEPARTMENT OF AGRICULTURE], 1274w, 2121l
 U.S. PRODUCTION AND MARKETING ADMINISTRATION, 1274w
 UTECH, N. M., 1790

 VAARAMA, A., 1378
 VACIN, E. F., 1829
 VAHL, E., 1290, 1319
 VAIL, G. E., 2100
 VALLEAU, W. D., 1788
 VANDER MEULEN, E., 1682
 VANSSELL, G. H., 1322
 VANSELOW, A. P., 2141
 VARNER, J. E., 1274x
 VASILJEV, I. M., 1434
 VASUDEVA, R. S., 1742, 1743
 VAUGHN, J. R., 1587
 VEIHMEYER, F. J., 1354
 VELBINGER, H. H., 1554

VENKATARAMAN, M. S., 2001

VENNING, F. D., 1901

VERBELEN, V., 1283

VERBRUGGEN, A., 1680

VERDEREVSKIĬ, D. D., 1474

VERONA, O., 1786

VIDAL, J., 1566y

VIETS, F. G., Jr., 1685

VINCENT, L. E., 1941

VINEY, R., 1367

VISCHER, E. B., 1668

VOELCKER, O. J., 1983

VOLMER, W. E., 1464

VORONKEVIČ, I. V., 1717

VAN DE VRIE, M., 1522

VUITTENEZ, A., 1468

VYVYAN, M. C., 1357

WADE, G. C., 1626

WÄDENSWIL HORTICULTURAL RE-
SEARCH STATION, 2172

WADLEIGH, C. H., 1622

WAIN, R. L., 1274y

WAITE AGRICULTURAL RESEARCH
INSTITUTE, 2173

WALAWALKAR, D. G., 2116

WALKER, H. B., 1687

WALKER, J. C., 1667

WALTER, H., 2178b

WALTER, J. M., 1566i

WALTERS, B., 1954

WANDER, I. W., 1335

WANDREKAR, S. D., 1631

WARING, E. J., 1606, 1639

WARMKE, H. E., 1952

WARNE, L. G. G., 1210

WARREN, F. L., 2121k

WARREN, G. F., 1955

WASHAUER, B., 1274b

WATSON, R. D., 1665

WEATHERBY, R. T., 1380

WEBB, R. E., 1957

WEIGEL, C. A., 1628

WEINARD, F. F., 1870

WEINBERGER, J. H., 1431

WEINTRAUB, R. L., 1226

WEIR, T. S., 1286

WELLENSIEK, S. J., 1659

WENT, F. W., 1829

WENTZLER, J. E., 1349

WENZL, H., 1306, 1337, 1475

WEST, A. P., 2081

WEST AFRICAN CACAO RESEARCH
INSTITUTE, 2174

WEST OF SCOTLAND AGRICUL-
TURAL COLLEGE, 1203, 2178c

WESTER, H. V., 1585

WESTER, R. E., 1628

WESTON, W. A. R. D., 2142

VAN WESTRHENEN, P., Jr., 1369k

WETMORE, R. H., 1821, 1879i

WHALEY, W. G., 1691, 1694, 1695,
1696

WHEATLEY, G. A., 1543

WHEELER, E. H., 1556

WHEELER, T. S., 2106

WHITAKER, C. H., 1671

WHITAKER, T. W., 1658

WHITE, D. G., 1274z, 1342, 1349

WHITE, F. A., 1888, 1889

WHYTE, R. O., 2143

WILCOX, J. C., 1261

WILCOX, L. V., 1254

WILHELM, S., 1718

WILLIAMS, D. E., 1241

WILLIAMS, J. R., 2063

WILLIAMS, W. T., 1239

WILLIAMSON, C. E., 1874

WILSON, K. S., 1657

WINKLER, A. J. [Editor], 1460

WINKLER, H., 1439

WINSLOW, M. M., 2022

WINTER, T. S., 1369l

WISMER, C. A., 2065

WITKUS, E. R., 1808e

WITTWER, S. H., 1656

WOLFENBARGER, D. O., 1968f

WOODROOF, J. G., 2121v

WOODWARD, H. C., 1368

WRIGHT, J. O., 1579

WYBOU, A., 1423

WYSS-DUNANT, E., 1921

YARWOOD, C. E., 1623

YAXLEY, MUSHROOM RESEARCH
ASSOCIATION LTD., 2164

YODER, D. M., 1836

YOTHERS, M. A., 1510

ZAREČKIĬ, A. JA., 1946

ZARUBIN, A. F., 1416, 1417

ZAUMEYER, W. J., 1632

DEZEEUW, D. J., 1635

ZELLER, A., 1257

ZENTMYER, G. A., 1896, 1968b

ZILLER, R., 2037

ZIMMERMAN, P. W., 1592

ŽITNEVA, P. I., 1375

ZOBRIST, —, 1841

INDEX

H.A. Vol. 20. No. 4.

N.B.—Brackets round the name denote that this person, although not the author, was directly or indirectly concerned with the article.

- ABBISS, H. W., 3076
 ABRAHAMSON, B. H., 3308
 ADRIANCE, G. W., 3109
 AGATI, J. A., 2536
 AGLIBUT, A. P., 2812
 AGRICULTURAL RESEARCH ADMINISTRATION [U.S.A.], 3437
 AKHURST, C. G., 3256
 ALBAUM, H. G., 2303a
 ALBERT, A. R., 2498
 ALDERFER, R. B., 2445
 ALDRICH, D. G., 3136
 ALEXANDER, L. T., 2227
 ALLBRITTEN, H. G., 2905
 ALTONA, R. E., 2694
 (AMERICAN FERTILIZER), 3184
 ANDERSON, B. L., 3077
 ANDERSON, L. D., 2842
 ANDERSEN, E. E., 3162
 ANDISON, H., 2569
 ANDREAE, W. A., 3053a
 ANDREWS, F. W., 3391
 ANGELI, L., 2785
 ANGELL, H. R., 2522, 2523
 ANITIA, N., 3013
 ANNAND, P. N., 2660a, 3439
 ANNUAL REVIEWS INC, 3446
 ANON., 2297, 2371, 2394, 2404, 2411, 2443, 2458, 2616, 2626, 2660b, 2755, 2790, 2799, 2970, 3027, 3035, 3061, 3068, 3078, 3089, 3168, 3211, 3221, 3251, 3264, 3276, 3288, 3298, 3300, 3301, 3304, 3307, 3330
 ANSIAUX, J. R., 2258, 2259, 2860
 D'ARAGONA, G. G., 2212
 ARCIHOVSKAJA, E. V., 2192, 3152
 ARMENISE, V., 2350
 ARMSTRONG, T., 2543, 2581
 ARNASON, A. P., 2960
 ARNON, D. I., 2257
 ARTEMEV, G. V., 2777
 ARTJUŠENKO, Z. T., 2225
 ASHBY, E., 3072
 ASQUITH, D., 2571
 ATKINS, F. C., 2976, 2977, 2978
 ATKINSON, R. G., 2836, 2921
 AUBERT, P., 2336, 2384, 2385
 AUDUS, L. J., 2671
 AVDONIN, N. S., 2861
 AVENS, A. W., 2586
 Awner, Z., 3141
 AZZI, G., 2303b
 B., G. T., 2819
 B., N. C., 3060
 B., R., 2953
 BACHY, A., 3243
 BAERECKE, M.-L., 2915
 BAILEY, P., 2873
 BAILLIE, A. J., 2660c
 BAINES, R. C., 3163
 BAIRD, W. P., 2307, 2715
 BAKER, G. A., 2190
 BAKER, H. C., 3264
 BAKER, K. F., 2797, 3067, 3074
 BAKER, L. C., 2896
 BAKER, R. E., 2190
 BAKKER, J., 3062
 BALACHOWSKY, A., 2636
 BALAHOVSKIĬ, S. D., 3390a
 BALASEV, L. L., 3039
 BALCH, R. T., 3314
 BALD, J. G., 2879
 BALDACCİ, A., 2181
 BALDACCİ, E., 2516
 BALDONI, R., 2862
 BALLATORE, G. P., 2432
 BALTADORI, A., 2361
 BAMPTON, C. C., 3310
 BARBIER, G., 2473, 2725
 BARCLAY, A. E., 2302
 BARKER, B. T. P., 2472, 3390b, 3390c
 BARKER, C., 3354
 BARKER, J., 2966
 BARNARD, C., 3031
 BARNARD, T. T., 3084
 BARNES, A. C., 3266
 BARNES, M. M., 2650, 2653
 BARNETT, R. J., 2420
 BARRY, J.-P., 2329
 BARTELS, R., 2918
 BARTHOLOMEW, E. T., 3144
 BASKAYA, M., 2352
 BASUTOLAND DEPARTMENT OF AGRICULTURE, 3448a
 BATES, G., 3292
 BATJER, L. P., 2463
 BAUDEWIN, J., 3366
 BAUMGARTNER, F. M., 2660d
 BEATER, B. E., 3363a
 BECKLEY, V. A., 2658
 BEDDALL, J. L., 3392
 BEDOUE, J., 2931
 BEHR, L., 3070
 BELGIUM, I.R.S.I.A., 3419
 BELL, J. M., 2677
 BENEDICT, H. M., 3049
 BENNETT, S. H., 2547
 BENSON, A. A., 2232
 BERG, A., 2360
 BERGGREN, G. H., 2690
 BERGH, F., 2482
 BERRY, R. C., 2588
 BEWLEY, W. F., 3053b, 3393
 BHARGAVA, P. M., 2660e
 BIALE, J. B., 3365
 BICK, I. R. C., 3030
 VAN DER BIE, G. J., 3259
 BIEBERDORF, G. A., 2660f, 2843
 BIGORNIA, A. E., 3223
 BING, F., 2867, 2871
 BIOLOGICAL BRANCH, DEPARTMENT OF AGRICULTURE, VICTORIA, AUSTRALIA, 3093
 BIRAGHI, A., 2502, 2660g
 BIRKS, L. S., 2303g
 BITCOVER, E. H., 3135
 BITENC, F., 2992
 BITINSKY-SALZ, H., 2600
 BITTERS, W. P., 3145
 BLACK, W. A. P., 3052
 BLACKITH, R. E., 2657
 BLACKMAN, G. E., 2665
 BLAIR, C. A., 2577
 BLANC-AICARD, D., 2448
 BLATTNÝ, C., 2954, 2987, 2988
 BLIN, H., 3098
 BLINN, R. C., 2651
 BLOW, C. M., 3264
 BLUMER, S., 2499
 BOBB, M. L., 2554
 BOHMONT, D. W., 2676
 BOLL, H. L., 2412
 BOLLEN, A. G., 2304
 (BONIFACIO, —), 2969
 BONNEMAISON, L., 2961
 BONNER, J., 2193
 BONNER, W. D., Jr., 2195
 BORDEN, A. D., 2591
 BORDEN, R. J., 3291
 BORDING, K., 2391a
 BORGMAN, H. H., 2578
 BORGSTRÖM, G., 3370
 BÖRNER, C., 2594
 BORTHWICK, H. A., 2218, 2219
 BORZI, Z., 2516
 BORZINI, G., 2601, 2974, 2975
 BOTTGGER, G. T., 2654
 BOTTINI, E., 2271, 2646
 BOUGARD, M., 2574
 BOULAY, F., 2428
 BOULD, C., 2362, 2469, 2470
 BOUQUET, A., 3176
 BOVIEN, P., 2839
 BOWLING, J. D., 3011, 3012
 BOX, H. E., 3363b
 BOYES, W. W., 2647
 BOYLE, F. P., 2230
 BRADFIELD, A. E., 2355, 2356
 BRADFORD, E. A. M., 3167, 3364
 BRAGG, K. K., 2712b
 BRANDES, E. W., 3363u
 BRANNON, L. W., 2764
 BRANTON, C. I., 2990
 BRATLEY, C. O., 2454

- BRAY, D., 3245
 BREakey, E. P., 2589
 BREAZEALE, E. L., 2864
 BREAZEALE, J. F., 2864
 BREIDER, H., 2425
 BRENy, R., 2957
 BRÉTIONNÈRE, —, 2943
 BRETT, P. G. C., 3274, 3275
 BRIDGES, R. G., 3376
 BRILL, G. D., 2726
 BRIMBLECOMBE, A. R., 2959
 BROCK, R. B., 2417
 BROCK, R. D., 2874
 BROOKS, L. E., 2809
 BROWN, J. W., 2236
 BROWN, R., 2237
 BRUER, H. L., 2500
 BRÜHLMANN, J., 2713
 BRY, A., 2340
 BUCHHOLZ, A. B., 2288
 BÜHLER, H., 2199, 2268
 BURDICK, E. M., 3165
 BURGESS, A. H., 2983, 2984, 2985
 BURKHOLDER, C. L., 2342
 BURKHOLDER, W. H., 2505
 BURRELL, A. B., 2465
 BURRIS, R. H., 2228
 BURROUGHS, L. F., 3390d
 BURSTRÖM, H., 2250
 BURTON, H. B., 3390g
 BURTON, W. G., 2971, 3053c
 BUTTERFIELD, H. M., 3103a, 3103b
 BUZACOTT, J. H., 3277
 BUZI, C. C., 2323
 BYKOVSKIĬ, V. JA., 2723
 BYRDE, R. J. W., 2521
 CADMAN, C. H., 2401
 CAFFERY, C., 3302
 CAGE, T. B., 2203
 CAILLAVET, H., 3394
 CALVIN, L. D., 2635
 CALVIN, M., 2232
 CALVINO, E. M., 3063
 CAMERON, C., 3278
 CAMERON, E. E. G., 3363c
 CAMPBELL, A., 2660h
 CAMPBELL, J. C., 3053d
 CAMPBELL, R. E., 2825
 CAMPBELL, R. W., 2420
 CAMPDEN FRUIT AND VEGETABLE PRESERVATION RESEARCH STATION, 3410
 CANADA DEPARTMENT OF AGRICULTURE, 2537
 CANHAM, A. E., 2813
 CANNON, F. M., 3053e
 CANNON, R. C., 2959
 CAPUCCI, C., 2343
 CARLSON, E. C., 2749, 2750
 CARMAN, G. E., 2650, 2652
 CAROLUS, R. L., 2731
 CARPENTER, J. B., 3261
 CARRERA, C. J. M., 2291, 3083
 CARTMILL, W. J., 2899
 DE CARVALHO, D., 3195
 CASSIDY, T. P., 3051
 CATION, D., 2613
 CATLOW, E., 2374
 CATONI, G., 2495
 CAVANILLAS, L., 2283
 CEBRIĬ, M. P., 2426, 2427
 CENTRAL TOBACCO RESEARCH STATION, RUSTENBURG, 2996
 "CEPHALIUM", 3090
 CHABANNES, J., 2473, 2725
 CHALLINOR, S. W., 3390d
 CHANDLER, S. C., 2553
 CHANDRASEKARAN, S. N., 3173
 CHANG, L.-T., 2771
 CHAPLIN, P. H., 3064
 CHAPOT, H., 3115
 CHARLEY, V. L. S., 3378
 CHAUDHARY, M. T., 3239
 CHEESMAN, E. E., 3363d, 3363e
 CHERVENAK, M. B., 3161
 CHESHUNT EXPERIMENTAL AND RESEARCH STATION, 3411
 CHEVALIER, A., 3191, 3192, 3351, 3360
 CHIASSON, T. C., 2698
 CHILD, R., 3220
 CHILTON, S. J. P., 3321, 3332
 CHITTENDEN, A. E., 3207
 CHITTENDEN, R. J., 3254
 CHONA, B. L., 3319
 CHOU, C.-Y., 3172
 CHRISTIANSEN, G. S., 2194
 CHU, H. T., 3322
 CICCARONE, A., 2850
 CIERRI, R., 2501, 2629, 2660i, 2668
 CINI, M., 3103c
 CITRON, R. H., 3105
 CLARA, F. M., 2536
 CLARK, L. H., 2383
 CLARKE, W. F., 3363f
 CLARKSON, F. E. M., 3287
 CLOTHIER, G. E., 2303c
 CLULO, G., 2360
 CLYDESDALE, C. S., 2712a
 CMORA, N. JA., 2967
 COFFEE RESEARCH AND EXPERIMENTAL STATION, LYAMUNGU, TANGANYIKA, 3433
 COHEN, A., 3137
 COLBY, A. S., 2412
 COLEMAN, L. C., 2733
 COLLIER, H. C., 3355
 COLLIER, W. A., 2611
 COLLINS, W. F., 3029
 COLONIAL PRODUCTS ADVISORY BUREAU, 3447
 COMBS, O. E., 2688
 COMETTI, L., 3094
 COMMONER, B., 3053f
 COMMONWEALTH BUREAU OF BIOLOGICAL CONTROL, 2660j
 CONNELL, J. J., 3193a
 CONNELL, W. A., 2562
 CONRAD, J. P., 2275
 COOK, A. H., 2989
 COOK, H. T., 2880, 2939
 COOKE, G. W., 2278
 COOMBER, H. E., 3207, 3235
 COOPER, J. F., 3155
 COOPER, W. C., 3138
 COOPER, W. E., 3332
 CORNFIELD, A. H., 2303d
 CORNS, W. G., 2242
 COSGROVE, D. J., 3040
 COSMO, I., 2431
 COSTA RICA, MINISTRY OF AGRICULTURE AND INDUSTRIES OF THE SECOND REPUBLIC, 3412
 COTTENIE, A., 2869
 COUPIN, A., 2391b
 COURTNEY, W. D., 3077
 COX, J. A., 2541, 2586
 COX, M. B., 2709, 2710
 COX, R. S., 2760, 2802
 CRAFTS, A. S., 2674
 CRANE, J. C., 2352
 CRANG, A., 3390e
 CRAVENS, M. E., 2391c
 CRIPPS, E. G., 2984, 2985
 CROSSA-RAYNAUD, P., 3179
 CROWDY, S. H., 2494, 2497
 CROWELL, H. H., 2807
 CROWTHER, D. S., 3395
 CRUZ, S. R., 3358
 CULBERTSON, J. T., 3125
 CURCIO, M., 3007, 3022
 CURRENCE, T. M., 2847
 CURRIER, H. B., 2209, 2674
 CURTIS, L. C., 2806
 CUTHBERTSON, J. D., 2318
 CUTTING, C. V., 3187
 DADANT, R., 3231
 DAEPF, H. W., 3055
 DAHMUS, M. E., 2715
 DALBRO, K., 2254
 VAN DALFSEN, J. W., 3264
 DALMEYER, W. H. M., 2637
 DAMAST, J. Z., 2349
 DANA, B. F., 2762
 DANIEL, F. C., 3339
 DANIEL, H. A., 2709
 DANISH SEED TESTING STATION, 3053g
 DARASELIYA, N. A., 3343
 DARK, S. O. S., 3053h
 DARLINGTON, C. D., 3103d, 3396
 DARPOUX, H., 2455, 2515
 DAVID, W. A. L., 2648
 DAVIDSON, L. R., 3262, 3263, 3264
 DAVIDSON, T. R., 2916
 DAVIES, M. H. E., 2354
 DAVIES, R. G., 2597
 DAVIS, G. E., 2691
 DAVIS, J. F., 2729
 DAVIS, L. H., 3074
 DAVIS, W. C., 3190
 DAVISON, D. C., 3053i
 DAWSON, C. D. R., 2774
 DAY, M. W., 2708
 DE, B. N., 3171
 DEAN, R. W., 2570
 DEARBORN, C. H., 2693
 DEBACH, P., 3193b, 3193c
 (DEHAENE, A.), 2883
 DEKKER, K. D., 3294
 DELANOE, —, 2549
 DELAP, A. V., 2266, 2303e
 DEMENT, J. D., 3286
 VON DENFER, D., 2248
 DICK, J., 3326, 3329
 DICKER, G. H. L., 2545, 2546, 2565
 DICKSON, R. C., 2660k
 DIEHL, R., 2885
 DIKUSAR, I. G., 3046
 VAN DILLEWIJN, C., 3283
 DIMOCK, A. W., 2804, 3103e
 DIONIGI, A., 2303f
 DIOS, R., 3036
 DIRECTIE VAN DE LANDBOUW, THE HAGUE, 2614, 2950

- DITMAN, L. P., 2834, 3054c
 DJOU, Y. W., 3158
 DLABOLA, J., 3069
 DODDS, K. S., 3202
 DOMATO, J., 3124
 DOMINICK, C. B., 3023
 DOMINION FOREST SERVICE, 2488
 DE DONNEA DE H., R., 3366
 DORMAL, S., 26601
 DORMER, K. J., 2214
 DORNER, 2341
 DOUARCHE, L., 2486
 DOUGLASS, C. D., 2203, 3166
 DOUTT, R. L., 2593
 DOWNES, J. A., 2660m
 DROSDOFF, M., 3182
 DROUINEAU, G., 2727
 DUBLIN DEPARTMENT OF AGRICULTURE, 2388, 2882
 DULLUM, N., 2368
 DUNLAP, A. A., 2660n
 DUNN, E., 2944
 DUNN, H. C., 3354
 DUTT, J. O., 2690
 (DUVET, M.), 2883

 EAST AFRICA HIGH COMMISSION, 3413
 EAST AFRICAN AGRICULTURE AND FORESTRY RESEARCH ORGANIZATION, 3413
 EASTERBROOK, B., 2666
 EAST MALLING RESEARCH STATION, 3414
 EATON, J. K., 2357, 2597
 EDEN, T., 3335
 EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE, 3415
 EDWARDS, C., 3134, 3138
 EDWARDS, M. G., 2660o
 EDWARDS, M. V., 2707
 EICHLER, W., 2739, 2769, 2827, 2958
 EIRE MINISTER OF AGRICULTURE, 3448b
 ELDRIDGE, D. B., 2729
 EL-HELALY, A. F., 2761
 ELLIOTT, M., 3103f
 ELLIS, D. E., 2802
 ELLIS, N. K., 3041
 EL-SHISHINY, E. D. H., 2197
 ELWELL, H. M., 2709, 2710
 ELZE, D. L., 3121
 EMILSON, B., 2897
 ENGSTEDT, G., 2305
 ERICKSON, L. C., 2699
 ERMOLAEVA, E. JA., 2200
 ERWIN, A. T., 2784
 VAN ESSEN, W. J., 3264
 EVANS, H., 3212

 FABRICATORE, J. A., 2660p, 2817
 FALCK, R., 2509, 2510
 FANG, C., 3172
 FANTINI, G., 2646
 F.A.O., 3233
 LA FÉDÉRATION NATIONALE DES PRODUCTEURS DE PLANTS DE POMMES DE TERRE, 2888
 FEDERICO, L., 3381, 3382
 FELDMAN, A. L., 3164
 FERGUSON, W., 2697, 2720
 FERRER, L. G., 3002
 FERRER, R., 2679
 FERRER-DELGADO, R., 3349
 DE FERRIÈRE, P. J. J. F., 2447
 FIELDING, W. L., 3299, 3303
 FILMER, R. S., 2751
 FINKNER, A. L., 2387
 FINN, H., 2866
 FIORI, G., 2560
 FISCHER, R., 2913
 FISCHER, W., 2661k
 FIŠER, F., 2986, 2991, 2993
 FITZPATRICK, R. A., 3053k
 FITZWATER, W. D., Jr., 2603
 FJÄDERHANE, M., 2391d
 FLANDERS, S. E., 3193c, 3193i
 FLEMING, H. K., 2445
 FLEMING, W. E., 2555, 2556
 FLETCHER, W. P., 3264
 FLOOD, A. E., 2355, 2356
 FLOSDORF, E. W., 3001
 FOGG, G. E., 2673
 FOISTER, C. E., 2927
 FOOD AND AGRICULTURE ORGANIZATION, 3233
 FOOTE, M. W., 2660y
 FORESTRY COMMISSION, 3416
 FOREST INSECT SURVEY, FOREST INSECT INVESTIGATIONS, DEPARTMENT OF ENTOMOLOGY, DEPARTMENT OF AGRICULTURE, CANADA, 2537
 FORTUNATOV, I. K., 2399
 FOSTER, A. C., 2632
 FOWLER, T. E., 2506
 FOX, W. B., 2960
 FRANKLIN, H. J., 2592
 FRANKTON, C., 2712b
 FRASSELLE, E., 3363g
 FRASSELLE, J., 3230
 FRASER, R. H., 2998
 FRAZIER, W. A., 2848
 FREAR, D. E. H., 2445, 2630
 DE FREITAS, A. G. B., 2440
 FRENCH, G. W., 2729
 FREY, W., 2644, 2780
 FREY-WYSSLING, A., 2207
 FRIEDMAN, H., 2303g
 FRIEND, W. H., 3143
 FRITZSCHE, R., 2476
 FRUIT AND VEGETABLE PRESERVATION RESEARCH STATION, CAMPDEN, 3410
 FULLING, E. H., 3025
 FURNEAUX, B. S., 2366

 GAGE, J. C., 2642
 GAGE, T. B., 2202, 3166
 GAGNARD, —, 2868
 GALLAY, R., 2459, 2503
 GALLEMORE, C., 2202
 GALLEY, R. A. E., 3215
 GARCIA, G. M., 2823
 GARDELLA, C., 3032
 GARDINER, J. E., 2660q
 GARMAN, P., 2754
 GARNER, R. J., 2290, 2331, 2391e
 GARRARD, H. L., 2364
 GARRETT, J. C., 3054d
 GAULT, H. S., 2699
 GAYFORD, G. W., 2365, 3147
 GAYLORD, F. C., 2815
 GEISLER, E., 2778
 GEISTHARDT, G., 2660r

 GEORGIA COASTAL PLAIN EXPERIMENT STATION, 2393
 GEORGIA EXPERIMENT STATION, 3417
 GERRETSEN, F. C., 2303h
 GERSTEL, D. U., 3050, 30531
 GIBBS, L. C., 2321
 GIBBS, M., 2303u
 GIGANTE, R., 2660s, 3015
 GILBERT, S. G., 3182
 GILBERT, S. M., 3225
 GILES, J. E., 2874
 GILS, A., 2260
 GIMINGHAM, C. T., 2949
 GINSBURG, J. M., 2751
 GINSBURG, L., 2647
 GITHENS, T. S., 3397
 GJOERUM, H. B., 2618
 GLASS, E. H., 2643
 GLEN, R., 2960
 GLENN, E. M., 2479
 GODDARD, D. R., 2208, 3053m
 GODFREY, G. H., 2740
 GÖDÄNICH, G., 2303i, 2933
 GOLUBINSKII, I. N., 2982
 GONZÁLEZ, L. A. B., 2999
 GORODSKAJA, O. S., 3017
 GOT, N., 2419
 GOULD, C. J., 2719, 3085
 GOUNY, P., 2727
 GRAINGER, J., 2721, 2732
 GRANHALL, I., 2314, 2480
 GRARD, A., 2430
 GRASSO, V., 3053n
 GREEN, D. E., 2828
 GREENWOOD, D. E., 2838
 GREER, S. R., 3183
 GREFFIER, P., 2369
 GRESSITT, J. L., 3158, 3193c
 GRIFFITHS, D. G., 2359
 GRIGSBY, B. H., 2685
 GRINDROD, J., 3241, 3267
 GRISON, P., 2956
 GROSJEAN, J., 2612
 GROSSBARD, E., 2660t
 GROSZMANN, H. M., 2758, 3249
 GROVES, A. B., 2628
 (GRUBB, N. H.), 2402
 GRUBB, N. H., 2403
 GRUMMITT, O., 2660u
 GRÜNDLER, H., 2248
 GRUNNET, H. Ø., 2368
 GUALDI, G., 3024
 GUBA, E. F., 3065
 GUBÁNYI, E., 2244
 GUEIT, —, 3058, 3080
 GUHA, P. C., 3353
 GUNTHER, F. A., 2650, 2651, 2660v
 GUPTA, B. M., 3019
 GUPTA, N. C. D., 3363h
 GUPTA, S. N. D., 3240
 GUPTA, S. S., 3363i
 GUTIERREZ, M. E., 2995
 GUTTER, J., 3151, 3193f
 GUZZINI, D., 2322

 HÅ, K., 2381
 VAN HAARLEM, J. R., 2446
 HAAS, A. R. C., 3119, 3140
 HABER, E. S., 3053o
 HAGEDOORN, A. L., 3398
 HAGEDORN, D. J., 3053p
 HAGEN, K. S., 2593

- HAHN, —, 2298
 HAINES, F. M., 2210
 HALL, H. H., 2705
 HALL, R. M., 3303
 HALL, W. C., 2808
 HAND, D. B., 2230
 HANDFORD, R. H., 2792
 HANE, M., 2670
 HANNEN, J., 2659, 3390j
 HANSCH, C., 2238
 HANSEN, H. N., 2735
 HANSON, C., 2875
 HANSSON, A., 2346
 HARLER, C. R., 3334, 3341
 HARLEY, C. P., 2380
 HARPER, H. J., 2276
 HARRIS, G., 2989
 HARRISON, A., 3376
 HART, J., 2712a
 HART, R., 2389
 HARTLEY, C. W. S., 3357
 HARTMAIR, V., 2716, 2814
 HARVEY, C., 2809
 HARVEY, E. M., 3390f
 HASANAIN, S. Z., 3193d
 HASHE, J. W., 2842
 HASSEBRAUK, K., 3053q
 HASSID, W. Z., 2196
 HATT, H. H., 3363j
 HAUSCHILD, I., 2948
 HAUVILLE, —, 2325
 HAVAS, L. J., 2252, 2256
 HAVIS, A. L., 2380
 HAVIS, L., 2535
 HAWES, M. J., 3390g
 HEDOU, —, 2929
 HEDOU, J., 2968
 HEINICKE, A. J., 2464
 HESLON, G. A., 3018
 HEMBERG, T., 2972
 HEMBITZER, E., 2572
 HENDERSON, C. W. W., 2221
 HENDRICKS, R. H., 2274
 HENDRICKS, S. B., 2219, 2728
 HENDRICKSON, A. H., 2280, 2370, 2451
 HENSILL, G. S., 2631
 HEWITT, E. J., 2270, 2472, 2770, 2895
 HEWLETT, M. A., 2828
 HEY, A., 3053r
 HEY, G. L., 2619
 HEYMAN-HERSCHBERG, L., 2438, 2439
 HIED, H. Z., 3130
 HILBERT, G. E., 3438
 HILBORN, M. T., 2573
 HILDITCH, T. P., 3354
 HILKENBAUMER, F., 2338
 HILL, A. R., 2563
 HILL, A. V., 3018
 HILLS, G. R., 2274
 HILLS, O. A., 2783
 HIRSCHHORN, E., 3320
 HIRSHFELD, A., 2303a
 HIRST, E. L., 3103g
 HOAGLAND, D. R., 2257
 HOBBS, J. C., 3363k
 HOBBS, E. W., 2374
 HOFMASTER, R. N., 2838
 HOGG, W. H., 2477
 HØJENDAHL, K., 2303j
 HOLDEN, C., 3053m
 HOLLEY, R. W., 2230
 HOLMES, F. O., 2872
 HOLMES, G. D., 2707
 HOLLITT, R. E., 3363 i
 HOLZ, W., 2580
 HOMES, M. V., 2258, 2259, 2860
 HOOKER, W. J., 2934
 HOPKINS, H. T., 2728
 HOPKINS, J. C. F., 3016, 3029
 HOROWITZ, B., 3014
 HORSPOOL, R. P., 3144
 HORTICULTURAL EDUCATION ASSOCIATION, 3418
 HORTON, F. F., 3073
 HOSKINS, W. M., 2649
 HOTIN, A. A., 3042
 HOUGH, L., 3363m
 HOWE, G. H., 2391j
 HOWES, F. N., 3189
 HOWLAND, A. F., 2825, 2826
 HOWLETT, F. S., 2506
 HUBERT, K., 2952
 HUDSON, J. P., 2405, 2684, 2811
 HUELIN, F. E., 3384
 HUGHES, C. G., 3317
 HULME, A. C., 2359
 HUMMER, R. W., 2765
 HUSZ, B., 2583
 HUTTON, E. M., 3053s
 IMPERIAL CHEMICAL INDUSTRIES LTD., 2295
 INDIAN COUNCIL OF AGRICULTURAL RESEARCH, 3420
 INDIAN TEA ASSOCIATION, 3421
 INGRAM, J. W., 3324, 3331
 4TH INTERNATIONAL CONGRESS OF SOIL SCIENCE, 2180
 I.R.S.I.A. BELGIUM, 3419
 ISLIP, H. T., 3040
 IVANOVA, T. M., 3152
 JACOBS, W. P., 2215
 JACOBSON, H. G. M., 2692
 JACOBSON, M., 2654
 JAEGER, E. C., 3399
 JÄHNEL, G., 2887
 JAKOBSEN, J. M., 2303j
 JAMISON, V. C., 2293
 JANCKE, O., 2575
 JAMES, B. E., 2775
 JANY, E., 2877
 JARCEV, V., 2386
 JEFFERY, C. W., 2647
 JENNINGS, R. F., 3131
 JERMOLJEV, E., 2922, 2930
 JOHANSEN, C., 2589
 JOHN INNES HORTICULTURAL INSTITUTION, 3422
 JOHNSON, A., 2683
 JOHNSON, A. W., 2237
 JOHNSON, B. L., 3047
 JOHNSON, E., 2701
 JOHNSON, H. B., 3372
 JOHNSTON, J. C., 3129
 JOHNSTONE, D. B., 2660y
 JONES, E. W., 2770, 2895
 JONES, I. D., 2635
 JONES, J. K. N., 2303k, 3363m
 JONES, L. H. P., 2273
 JONES, M. D., 3038
 JONES, P. A., 3228
 JONES, R. A., 2279
 JONES, R. L., 2678
 JONES, T. H., 2452a
 JONES, W. W., 3133
 DE JONG, P., 3336
 DE JONG, P., 3344, 3345
 JOON, B. S., 2863
 JØRSTAD, I., 2508, 2935
 K., 2235
 KALBFLEISCH, W., 2303 i
 KALINKEVIČ, A. F., 3046
 KAMAT, M. N., 3318
 KAMMERMANN, N., 2942
 KAPOOR, S. L., 2890, 2891, 2892, 2893
 KARNATZ, H., 2615
 KÁRPÁTI, Z., 2452b
 KEARNS, H. G. H., 2617, 2624, 2625
 KEHL, F. H., 3338
 KELLY, C. B., 2446
 KEMMER, E., 2333, 2348
 KENAGA, E. E., 2765, 2766, 2767
 KENDALL, L., 3390e
 KENNEDY, J. S., 2492
 KENT, G. C., 2934
 KERHARO, J., 3176
 KERR, T. W., Jr., 3102
 KESSELRING, H., 2620
 KEYWORTH, W. G., 3053t
 KHALIL, A. I., 2197
 KIDD, F., 2358
 KIESER, M. E., 2398, 3390h
 KILBY, B. A., 2660q
 KILBY, W. W., 3181, 3183
 KIMBALL, M. H., 3126
 KIMME, D. C., 2303m
 KING, A. S., 2372
 KING, E. J., 3400
 KING, J. A., 2303n
 KING, J. L., 2660w
 KING, N. J., 3315
 KIRBY, R. H., 3235
 KJELLANDER, E., 2599
 KLINKER, J. E., 3053u
 KLINKOWSKI, M., 2769, 2782
 KOCIÁN, L., 3401
 KLOSTERMEYER, E. C., 2914
 KNOWLES, W. H. C., 3272, 3278, 3423
 KNOWLTON, G. F., 2557
 KNUDSEN, P., 2540, 2839
 KNUDSON, L., 3348
 KOBEL, F., 3369
 KOBUSKI, C. E., 2184
 KOCH, L. W., 3020
 KOCIÁN, L., 3379
 KOGEKAR, V. K., 3053v
 KOLESNIKOVA, N. V., 3390a
 KOLJASEV, F. E., 2285
 KONDO, I. N., 2435
 KONDRACKII, A. A., 2422
 KONOVALOV, I. N., 2225
 KOPACZEWSKI, W., 3265
 KORÓDI, L., 2830
 KORTEN, —, 2604
 KRAEVOI, S. J., 2773
 KRÁL, C. J., 2923
 KRAMER, P. J., 2209
 KRISHNAN, P. P., 3353
 KROCHMAL, A., 2321
 KRUKOFF, B. A., 3361
 KRÜSSMANN, —, 2396, 3103h
 KULIKOVA, M. F., 2776
 KURGANOVA, M. I., 2224
 KURTZ, E. B., Jr., 3388

- KUZNETS, G. M., 3131
KvíčALA, B. A., 2794, 2947
- LA COUR, L. F., 3103d
LAIBE, B., 3079
(LAIRD, R.), 2881
LAMB, R. C., 2391j
LAMBARDI, N., 3198
(LAMBERT, C.), 2969
LANA, E. P., 3053w
LANGE, W. H., Jr., 2558, 2749, 2750
LANGFORD, M. H., 3261
LANSADE, M., 2926
LANZA, F., 3375
LARGE, J. R., 3186
LAROSE, E., 3006
LARSEN, E. C., 2894
LARSEN, P., 2344
LARSSON, G., 2337
LASKARIS, T., 3071
LATHROP, F. H., 2573
LATIES, G. G., 2201
LATTA, R., 2744
LAUDELOUT, H., 3242
LAUDENCIA, P. N., 2812
LAURINI, M., 2862
LAWRENCE, J. M., 2303o
LEACH, J. G., 2627
LEACH, L. D., 2749, 2750
LEAR, B., 2804
LEATHERDALE, D., 2302
LEEFFE, J. S., 2696
LEEPER, G. W., 2273
LEFÈVRE, G., 2448
LEGRIS, P., 3350
LEGROS, R., 3006
LEIRA, A. R., 3352
LEMARCHAND, S., 3250
LENANDER, S.-E., 2466
LETOUZEY, R., 3361
LEUBUSCHER, C., 3268
LEVINE, M., 2213
LEWIS, F. H., 2525
LEWIS, H. C., 3193e
LEWIS, M. T., 2840
LEWIS, T., 3386
LEWIS, W. A., 3186
LEYENDECKER, P. J., 2786
LEYVRAZ, H., 2452c, 2452d, 2478, 2485
LEŽAVA, V. V., 2449
LI, C.-S., 2771, 3170
LI, L.-Y., 3170, 3172
LIBES, R., 2335
LIHNELL, D., 2660x
LIMBER, D. P., 3088
LINCOLN, R. E., 2198, 2846
LINSLEY, E. G., 2638
LITTAUER, F., 3150, 3193f
LITTLE, J. E., 2660y
LIU, H. P., 3316
LIVINGSTON, A. E., 2179
LLOYD, A. A., 3269
LLOYD, W., 3196
LOBKO, N. K., 2564
LOCKE, L. F., 3054d, 3188
VON LOESECKE, H. W., 3402
LOEWEL, E. L., 2332
LOMBARD, T. A., 3142
LONA, F., 2220
LONG ASHTON AGRICULTURAL AND HORTICULTURAL RESEARCH STATION, 3424
- LOOMIS, H. F., 3359
LOTT, W. L., 2191
LOUSTALOT, A. J., 2679, 3182
LOWE, J. S., 2857
LOZZIA, G., 2551
DE LUCA, Y., 2810
LUCETTI, G., 2474, 2475
LUCIE-SMITH, M. N., 3110, 3111
LUCKETT, E. J. R., 3289
LUCKWILL, L. C., 2303p, 2494, 2497
LUTHRA, J. C., 3026
LUTZ, J. M., 2939
LYAMUNGU COFFEE RESEARCH AND EXPERIMENTAL STATION, 3433
LYLE, E. W., 3099
LYNCH, L. J., 2841
- MACCANTI, M., 2474, 2475
MCCLELLAN, W. E., 3081
McDOUGALL, W. A., 3333
McGEORGE, W. T., 2864
McGILVRAY, D. I., 3103g
McGREGOR, A. J., 2269
McKAY, R., 2870, 2920
McKEEN, C. D., 2734, 2824
McLAUGHLIN, J. H., 3210
MACLEAN, A., 3305
McLEAN, D. M., 2779
McMARTIN, A., 2704, 3273, 3279, 3281, 3323
McMUNN, R. L., 2319
McMURTREY, J. E., Jr., 3011, 3012
MACSELF, A. J., 3404
MACSWAIN, J. W., 2638
MADEL, W., 3043
MADHURAM, G. H., 3173
MADSEN, H. F., 2591
MAGELLI, E., 2844
MAGIE, R. O., 3082
MAHER, C., 3227
MAIER, E. A., 2706, 3285, 3302, 3306, 3309, 3363n
MAINES, W. W., 2556
MAJOR, F., 3040
MAKAREVSKAJA, E. A., 2245
MALAGUTI, G., 2789
MALAYA RUBBER RESEARCH INSTITUTE, 3257, 3258
MANDIGO, J. H., 2484
MÁNDY, G., 2461
MANGELSDORF, A. J., 3270
MANN, C. E. T., 3264
MANSFELD, K., 2605
MANZEL, R., 2579
MARH, A. T., 3164
MARIMAN, G., 2418
MARKIN, M. I., 2429
MARLOTH, R. H., 3128
MARSH, R. W., 2617
MARSHALL, G. E., 2542, 2639
MARTELLI, G. M., 2660z
MARTH, P. C., 2233, 2380
MARTIN, H., 2634, 2661a
MARTIN, J. P., 3120
MARTIN, L. F., 3312
MARTINO, C., 3005
MARTYR, R. F., 2351
MAŠINSKAJA, L. P., 2490
MAŠKOVÁ, J., 2695
MASON, A. C., 2264
MASSA, L., 3180
- MASSEE, A. M., 2539
MATHER, K., 3396i
MATTHEWMAN, W. G., 2741, 2781
MATTHEWS, J. D., 2859
MAUREL, H., 2810
MAURER, R. H., 3165
MAURI, N., 2310
MAXWELL, C. W. B., 2587
MAXWELL, N. P., 2851, 3143
MAYEUX, H. S., 2740
MAYNE, J. E., 3201
MAZOYER, R., 2727
MEAHL, R. P., 3100
MEARA, M. L., 3363i
MEDINA, J., 3213
MEEUSE, B. J. D., 2208
MEHNER, H., 2268
MEINDERS, H. C., 3038
MEITH, H. C., 3132
MELIN, E., 2229
MELLOR, F. C., 2530
MELSTED, S. W., 2267
MELTZER, J., 2645
MENAGARIŠVILI, A. D., 2449
MENON, H. B., 2409, 3175, 3222
MENON, K. P. V., 3224
MENON, N. S., 3363o
MERKENSCHLAGER, F., 2640
VAN DER MERWE, W., 2889
MÉSZÖLY, G., 2849
METCALFE, C. R., 2292
METLICKII, Z. A., 2375
MEZZETTI, A., 3178
MICHELBACHER, A. E., 2875
MICHIGAN AGRICULTURAL EXPERIMENT STATION, 3448c
MICHIGAN STATE BOARD OF AGRICULTURE, 3448c
MICHON, R., 2566
MIDDLEKAUFF, W. W., 2875
MIHAĽOVA, P. V., 3004
MILLER, D. J., 3387
MILLER, M. E., 2660v
MILLER, V. L., 3077
MILOVANNOVA, L. V., 3374
MINARIK, C. E., 2662
MINER, F. D., 2567
MINGES, P. A., 2856
MINISTRY OF AGRICULTURE AND INDUSTRIES OF THE SECOND REPUBLIC, COSTA RICA, 3412
MINISTRY OF AGRICULTURE, LONDON, 2294, 2608, 2712c, 2748, 2845, 2928, 3053x, 3053y, 3103i, 3103j
MINNESOTA AGRICULTURAL EXPERIMENT STATION, 3448d
MINZ, G., 2532, 3148, 3151
MISSISSIPPI AGRICULTURAL EXPERIMENT STATION, 3452
MISSONNIER, J., 2961
MITCHELL, J. H., 3204
MITCHELL, J. W., 2233, 2249
MITCHELL, P., 3246
MITCHELL, R. S., 2841
MITCHELL, W., 2660h
MITCHENER, A. V., 2738, 2962
MOBERLY, G. S., 3295
MODLIBOWSKA, I., 2479, 2483
MOELLER, S., 2514
MOELSTED, S. W., 2267
MOERICKE, V., 2548
MOEWUS, F., 3096
MOHRENWEISER, D., 2328

- MOLINIER, R., 2487
 MONOT, G., 2884, 2886, 2900, 2931
 MONSELISE, S. P., 3127
 MONTAGNAC, R., 3234
 MONTANARI, V., 2311
 MONTSERIN, B. G., 3208
 MONZINI, A., 3381
 MOORE, D. H., 2768
 MOORE, E. J., 2216
 MOORE, J. F., 2847
 MOORE, M. H., 2519, 2520, 2559
 MOORE, P. W., 2702
 MOOSAD, C. R., 3362
 MORAES, A. DE M., 2925
 MORETTI, A., 2334, 2376
 MORETTINI, A., 2315, 2363
 MORGAN, D. T., Jr., 3053z
 MORGAN, N. G., 2624, 2625
 MORRIS, J. S., 2772
 MORRIS, J. W., 2994
 MORRISON, H. E., 2807
 MORROW, E. B., 2191
 MUELLER, R. T., 3126
 MUESEBECK, C. F. W., 2538
 MUIR, R. M., 2238
 MUKHERJEE, S. K., 3237
 MUKULA, J., 3377
 MULDER, E. G., 2263
 MÜLLER, E., 2481
 MÜLLER, F. P., 2595, 2746, 3054a
 MÜLLER, H. J., 2958
 MÜLLER, K. O., 2938, 2941
 MUNJAL, R. L., 3319
 MUNN, M. T., 2287, 2288
 MUNRO, J. A., 3092
 MÜNSTER, J., 2910, 2911
 MURNEEK, A. E., 2378
 MURTI, K. S., 3362
 MUSHROOM GROWERS' ASSOCIATION, 2980
 MUSKETT, A. E., 2468
 MUTZ, H., 2561
 MUZYČKIN, E. T., 2722
 MYGIND-GAD, H., 2533
 NADEL-SCHIFFMANN, M., 3150
 NAJJAR, H., 2444, 2527, 2596, 2718
 N.A.K.B., 2410
 NARASIMHASWAMY, R. L., 3363p
 NATIONAL INSTITUTE OF AGRICULTURAL BOTANY, 2714, 3426
 NATIONAL INSTITUTE OF AGRICULTURAL ENGINEERING, 2906, 2907, 2908
 NAUNDORF, G., 2247, 3213, 3214, 3226
 NEAL, O. R., 2726
 NEBRASKA AGRICULTURAL EXPERIMENT STATION, 3427
 DE NECKER, A., 2869
 NEDERLANDSE ALGEMENE KEURINGSDIENST VOOR BOOMKWEKERIJGEWASSEN, 2410
 DE NEEF, J. C., 3264
 NEELY, W. B., 2240, 2241
 NÈGRE, E., 2442
 NELSON, R., 2796
 NEUBAUER, S., 2954
 NEWSHAM, J. C., 3403
 NICHOLAS, D. J. D., 2472
 NICKELS, C. B., 2544
 NICKLOVÁ-NAVRÁTILOVÁ, H., 3057
 NILSSON, H., 2229
 NITSCH, J. P., 2414
 NIXON, R. W., 3169
 NOREM, W. L., 2677
 NORGE STANDARDISERINGS-FORBUND, 2299
 NORMAN, A. G., 2662
 NORSKE HAGESELSKAP, 2316
 (NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION), 2394
 NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION, 3428, 3448e
 NORTHCOLE, K. H., 2284
 NOSTI, J., 3054b
 NOVÁK, J. B., 2511, 2798
 NOVOPOLJAKAJA, E. V., 2590
 NYASALAND PROTECTORATE DEPARTMENT OF AGRICULTURE, 3429
 NYHLÉN, Å., 2379
 OATES, W. J., 2680
 O'CONNOR, B. A., 3205
 ODLAND, T. E., 2905
 OGUR, M., 2303a
 OKLAHOMA AGRICULTURAL EXPERIMENT STATION, 2281, 3448f
 OLDAKER, C. E. W., 2879
 OLDÉN, E. J., 2339, 2480
 OLDHAM, C. C., 2415
 DE OLIVEIRA, A. J., 2303q
 O'MARA, F. D., 3293
 OMER-COOPER, J., 3160
 ONTARIO DEPARTMENT OF AGRICULTURE [VINELAND], 3430
 OOSTENBRINK, M., 2946
 OPPENHEIMER, H. R., 2854, 3106, 3112
 OREGON AGRICULTURAL EXPERIMENT STATION, 3431
 ORTEGA, R., 2940
 OSBURN, M. R., 3157
 ÖSTLIND, N., 3371
 OSVALD, C. V., 2987, 2988
 OVČINNIKOV, I. F., 2397
 OVERSTREET, R., 2303t
 OWEN, G., 3256
 OWENS, H. B., 3054c
 OWNBEY, M., 2820, 2821
 OZEROV, G. V., 2327
 PADHYE, Y. A., 3318
 PAGE, A. B. P., 2657
 PÄHLMAN, A., 2377
 PAINE, J., 3053t
 PAINTER, A. C., 2390
 PAINTER, J. H., 3186
 PALMA, M., 3209
 PALMER, A. W., 3001
 PALTÍ, J., 2513, 2514, 2747, 3141
 PANCK, —, 2296
 PANDALAI, K. M., 3224
 PANFILOVA, T. S., 2517
 PARK, B., 3405
 PARKER, E. R., 3133
 PARKER, K. G., 2505
 PARKER, L. B., 2660w
 PARKER, M. W., 2218, 2219
 PASQUIER, R., 2810
 PATEL, M. K., 3318
 PATERSON, H. C., 3340
 PATRONE, I. M., 2518
 PATT, Y., 3122
 PATTERSON, R. E., 2681
 PEARCE, O. W. M., 3290
 PEARCE, S. C., 2187, 2188
 PEARSON, G. A., 2231
 LE PECHON, J., 2902
 PEMBERTON, C. E., 3363q
 PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION, 3432
 PÉNZES, A., 2320
 PEPPER, B. B., 2736
 PEPPER, J. O., 2737
 PERCIVAL, E. G. V., 3103g
 PEREIRA, H. C., 3228, 3229
 PERROT, H., 2373
 PERSONS, T. D., 2500
 PERUCCI, E., 3000, 3003
 PETERS, B. G., 2534
 PETERSEN, D., 2613
 PETERSON, H. B., 3408
 PETRAHILEV, I. M., 2489
 PETTINARI, C., 2933
 PHILCOX, H. J., 2265
 PHILLIS, E., 3216
 PHILPOTT, M. W., 3264
 PICCO, D., 2601
 PICHLER, F., 2471
 VAN DER PIJL, L., 2611
 PINTO SALVATIERRA, R., 3356
 PIROVANO, A., 2308
 PITCHER, R. S., 2602
 PLANK, H. K., 2656, 3349
 PLUMMER, C. C., 3155
 PODUFALÝ, T. I., 2467
 POLJAKOV, I. M., 3004
 POLLARD, A., 2398, 3390h
 POLLARD, A. G., 2303d
 PONTAILLER, S., 2901
 PONTIS, R. E., 2789
 POPOVSKAJA, E. M., 3383
 PORTE, W. S., 2852
 PORTER, H. A., 2661b
 PORTER, J. W., 2198
 PORTER, R. H., 3347
 PORTSMOUTH, G. B., 3342
 POST, K., 3073
 POST, R. L., 3092
 POTTER, G. F., 3181
 POTTER, N. A., 2359
 POWERS, L., 3054d
 PRATT, R. M., 2622
 DU PREEZ, D., 3174
 PRENTICE, I. W., 2493
 PREST, R. L., 3107
 PRESTON, A. P., 2186, 2391f
 PRICE, W. C., 3019
 PRÍHODA, A., 2531
 DI PRIMA, S., 2661c
 PRIMOST, E., 2752
 PROCENKO, A. E., 3123
 PROCTER, C., 2300
 PROKTER, N. J., 3406
 PROPÁČZY, A., 2244
 PROTČENKO, P. K., 2422
 PRUTHI, H. S., 3159
 PUTMAN, E. W., 2196
 PUTMAN, W. L., 2582
 QUIDET, P., 2901

- RABIDEAU, G. S., 2216
 RAJHATHY, T., 3054e
 RALEIGH, S. M., 2681
 RAMDAS, L. A., 3200
 RAMÍREZ-SILVA, F. J., 3247
 RAMSFJELL, T., 2528
 RANDB, R. D., 3363u
 RANGASWAMI, C., 2423
 RAO, M. V. V., 2669
 RAPPLEYE, R. D., 3053z
 RAUTAVAARA, T., 2303f
 RAYNER, R. W., 3232
 REBOUR, H., 2309, 3114
 REDEMANN, C. T., 2246
 REED, I. F., 2293
 REED, J. P., 2751
 REESE, G., 2253
 REICH, H., 2606
 REICHERT, I., 2514
 REID, A. L., 2391g
 REINDERS-GOUWENTAK, C. A., 2859, 2867
 REINKING, O. A., 3054f, 3206, 3236
 REUCKI, F. V., 2904
 REUTHER, W., 3139
 REYNARD, —, 2945
 RICHARDSON, F. R., 2292
 RICK, C. M., 2853
 RIGNEY, J. A., 2191
 RILEY, J. P., 3363r
 RINER, M. E., 3053 i
 RINGOET, A., 2860
 RINGS, R. W., 2552
 RINTHAKUL, C., 2659
 RIPPER, W. E., 2633
 RIVNAY, E., 2600
 ROBB, O. J., 2689
 ROBB, R. I., 3219
 ROBERTI, D., 2598
 ROBINSON, E., 2237
 ROBIONY, D., 2491
 RODRIAN, —, 2641
 ROEHRICH, R. (M. et Mme.), 2584
 ROGERS, W. S., 2406, 2413, 2483
 ROHRBAUGH, P. W., 3113, 3143
 ROLAND, G., 2917, 3103k
 (RONALDSON, F. H.), 2623
 RONCHI, V., 2421
 ROSE, D. H., 2661d, 2880
 ROSELLA, E., 2550
 ROSS, A. A., 3116
 ROSS, A. F., 2919
 ROSS, W. A., 2543
 ROUILLARD, G., 3284
 ROUNDS, M. B., 3108
 ROUSE, BIN H. M. A., 3262
 ROVATT, J. W., 2921
 ROWELL, J. D., 3193g
 ROY, R. S., 3171
 ROYAL HORTICULTURAL SOCIETY, 3087
 (ROYAL SOCIETY), 2185
 RUBBER RESEARCH INSTITUTE OF MALAYA, 3257, 3258
 RUBIN, B. A., 2192, 3152
 RUGGIERI, G., 2345
 RUSTENBURG CENTRAL TOBACCO RESEARCH STATION, 2996
 RYZKOV, V. L., 3017
 RZEVKIN, A. A., 2330

 S., E. H. G., 3033, 3199
 SAG, G., 3044
 SAID, H., 2197
 SALTER, R. M., 3440
 SAMYGIN, G. A., 3075
 (SANDERS, W. T.), 3404
 SANDWITH, N. Y., 3177
 SANKARA-SUBRAMONY, H., 3224
 SANKIEWITSCH, E., 3407
 SANNIKOVA, H. M., 3039
 SASS, J. E., 2934
 SCARCHUK, J., 2806
 SCARRONE, F., 3217
 ŠČEGLOVA, O. A., 2200
 SCHEIBE, K., 2955
 SCHILLING, W. E., 3193e
 SCHLEUSENER, P. E., 2731
 SCHOFIELD, M., 3034
 VAN SCHOOR, G. H., 2259
 SCHRANK, A. R., 2211
 SCHRÖDTER, H., 2763
 SCHROEDER, C. A., 3104
 SCHROPP, W., 2262, 2272
 SCHULZ, F., 2333
 SCHWANTZ, F., 2717
 SCHWARTZ, E., 2963
 SCOTLAND DEPARTMENT OF AGRICULTURE, 2881, 3053j
 SCOTT, F. M., 2226
 SECRETARY OF AGRICULTURE, U.S.A., 3436
 SEELEY, R. C., 2243
 SEIBERT, R.-J., 3252, 3253
 SELJANINOV, G. T., 2801
 SELL, H. M., 2246
 SELTZER, R. E., 3193g
 SEN, A. B., 2660e
 SENDLER, O., 2951
 ŠEREMETEVSKIĭ, P., 2730
 SETHOFER, V., 2922, 2923, 2930
 SEYBOLD, A., 2199, 2268
 SHAW, A. C., 3390i
 SHAW, J. G., 3154
 SHEPARD, P. H., 2391h
 SHERMAN, C. B., 3045
 SHERRARD, C. D., 3271
 (SHEWELL-COOPER, W. E.), 3403
 SHILL, O. W., 2351
 SIDERIS, C. P., 3248
 SIEGEL, S. M., 2251
 SINCLAIR, K. B., 3363s
 SINCLAIR, W. B., 3144
 SINGH, D., 3054g
 SINGH, M. P., 2261
 SINGH, R. N., 2805
 SINGH, S., 2347
 SINGH, S. N., 2863, 3117
 ŠIP, V., 2912
 SLABÝ, V., 2954
 SLATTER, E. M., 2286
 VAN SLUCKEN, A., 2878
 SMALL, T., 2944
 SMEETS, L., 2859
 SMIRNOVA, V. A., 3017
 SMIT, B., 3193h
 SMITH, C. F., 2635
 SMITH, F. F., 2753
 SMITH, H. F., 3255
 SMITH, H. S., 3193i
 SMITH, L. M., 2558
 SMITH, O., 2691, 2898
 SMITH, P. F., 3139
 SMITH, R. B., 2303s
 SMITH, R. F., 2638
 SMOCK, R. M., 3368
 SMOLÁK, J., 2507, 2667, 2793

 SNYDER, J. C., 2408
 SNYDER, W. C., 2735, 2797
 SOLOMON, S., 2669
 SOLOVJEVA, M. A., 2326
 SOMOS, A., 2757
 SØRENSEN, H., 2837
 SOUTY, J., 3394
 SPANGELO, L. P., 2703
 SPECHT, A. W., 2728, 3139
 SPENCER, H., 3157
 SPINKS, G. T., 2313
 SPRAGG, W. T., 3053c
 SPRING, F. S., 3363t
 STAHELIN, M., 2353
 (STAHL, C.), 3053g
 STALÉ, J., 2459
 STAPP, C., 2918
 STARK, J., 3363t
 STARNES, O., 2736
 STARY, B., 2795, 3069
 (STATENS FORSØGSVIRKSOMHED I PLANTEKULTUR), 2368, 2837
 STATENS FORSØGSVIRKSOMHED I PLANTEKULTUR, 2661e, 2664, 3367
 STATENS PLANTEPATOLOGISKE FORSØG, 2453
 STEARN, W. T., 3409
 STEELE, W. G., 2964
 STEIB, R. J., 3321
 STEIL, W. N., 3059
 STEINBERG, R. A., 3011, 3012
 STEINIGER, F., 2661f
 STEUDEL, W., 2743
 STEVENS, R. B., 2456
 STEVENSON, E. C., 3041
 STEWARD, F. C., 2204
 STEWART, N., 2389
 STEWART, W. S., 3130
 STICKLEY, R. M., 2318
 STIRK, G. B., 2282
 STOCKER, O., 2217
 STOFBERG, F. J., 3162
 V. STOKAR, —, 2234
 STOKES, I. E., 3280
 STOLL, K., 2763, 2832, 2833, 2835
 STONE, A. M., 2398, 3390h
 STOUT, P. R., 2303t
 STOVER, R. H., 3020, 3054h
 STRASSER, P. H. A., 3363j
 STREET, H. E., 2857
 STUART, N. W., 3081
 STURGIS, M. B., 3286
 SUHAČEV, A. D., 3373
 SULAKADZE, T. S., 2245
 SUMMERS, E. M., 3363u
 SUNDARARAJ, D. D., 3173
 SVOBODA, J., 2798
 SWANBACK, T. R., 3008, 3010
 SWANK, G. R., 2744
 SWANSON, C. L. W., 2182, 2692
 SWEET, R. D., 2687
 SYLVÉN, E., 3101
 SZIRMAI, J., 2788

 TAI, E. A., 3118
 TALLON, G., 2487
 TAMMAN, A. I., 2903
 TANGANYIKA COFFEE RESEARCH AND EXPERIMENTAL STATION, LYAMUNGU, 3433
 TASCHENBERG, E. F., 2585, 2586
 TAUBÖCK, K., 3054i
 TAVADZE, P. G., 2433

- TAYLOR, E. A., 2783
 TAYLOR, J., 2187, 2189
 TEAGUE, C. P., 3146
 TEJADA, J. DE D., 3311
 TEMPANY, H. A., 3194
 TERRIER, C., 2512
 TERTYČNAJA, L. A., 2861
 THAMS, J. C., 2661g
 THAYSEN, A. C., 2610
 THEAU, A., 3066
 THIEM, H., 2661h
 THIMANN, K. V., 2194, 2195
 THOMAS, C. A., 2979
 THOMAS, G. E., 2944
 THOMAS, H. R., 2759
 THOMAS, M. D., 2274
 THOMPSON, A. C., 2724
 THOMPSON, A. H., 2463
 THOMPSON, F. C., 2984, 2985
 THOMPSON, J. F., 2204
 THOMPSON, K. L., 3053a
 (THOMPSON, W. R.), 2660j
 THORNE, D. W., 3408
 TIÈCHE, J., 2183
 TIHOVIDOVA, V. K., 2609
 TILEMANS, E., 2663
 TINCKER, M. A. H., 2400, 3086
 TITAEV, A. A., 2206
 TODD, A. R., 3030
 DU TOIT, R., 2682, 2686
 TOLHURST, J., 2362
 TOMAR, B. S., 3117
 TOMBESI, L., 2222, 2223, 2855,
 2973
 TONDEUR, R., 3389
 TORRES, J. P., 3238
 TÓTH, E., 2324
 TOWNES, H., 3021
 TRAUB, H. P., 2255
 TRECCANI, C. P., 2436, 2437
 TROCMÉ, S., 2473, 2725
 TROICKAJA, N. A., 3390a
 TROTIER, A., 2450
 TROUILLON, L., 2745
 TROUT, S. A., 3380
 TROYAHN, W. J., 3363j
 (TRULLINGER, R. W.), 3441
 TULLIS, E. C., 3190
 TUNBLAD, B., 2568, 2661i
 TUNG, S. M., 2344
 TURČEK, F. J., 2524
 TURJANSKIĭ, G. F., 2441
 TURNBULL, R. F., 3385
 TURNER, N., 2965
 TURNER, W. F., 2500
 TURRELL, F. M., 3136, 3161
 TYRRELL, V. D., 2997
 TYSDAL, H. M., 3048
 TYSON, J., 2800

 UDEFRIEND, S., 2303u
 UGANDA DEPARTMENT OF AGRI-
 CULTURE, 3434
 UNITED PLANTERS' ASSOCIATION
 OF SOUTHERN INDIA, 3435
 UPSHALL, W. H., 2446
 U.S. AGRICULTURE RESEARCH
 ADMINISTRATION, 3437
 U.S. DEPARTMENT OF AGRI-
 CULTURE, 3441, 3442
 U.S. DEPARTMENT OF AGRI-
 CULTURE, PRODUCTION AND
 MARKETING ADMINISTRA-
 TION, 2303v, 2661j

 U.S. SECRETARY OF AGRI-
 CULTURE, 3436

 VALLANCE, L. G., 3282
 VALLE, T., 3381, 3382
 VANDERHASSELT, P., 2367
 VANSTONE, F. H., 2265
 VASILJEVA, Z. V., 2224
 VAUGHAN, E. K., 2762
 VAUGHN, J. R., 2803
 VEIHMEYER, F. J., 2280, 2370,
 2451
 VENKATARAMANI, K. S., 3203,
 3260, 3337, 3346
 VENTRE, E. K., 3314
 VERDEREVSKIĭ, D. D., 2529
 VERMAAT, J. G., 3259
 VERONA, O., 2672
 VIADO, G. B., 3223
 VICINI, L., 2576, 2607
 VICTORIA DEPARTMENT OF AGRI-
 CULTURE, BIOLOGICAL
 BRANCH, 3093
 VIEITEZ, M. G., 3036
 VIELWERTH, V., 2924, 2932
 VILLAMIL G., F., 3213, 3214
 VINELAND HORTICULTURAL EX-
 PERIMENT STATION, 3430
 VIROT, R., 2655
 VIVERO NACIONAL RAMA CAIDA,
 2317
 VLAMIS, J., 2231
 VOJTOVIČ, K. A., 2529
 VOLCANI, Z., 2787
 VOLK, G. M., 2700
 VÖLK, J., 2948
 VOLODARSKII, N. I., 3009
 VOLP, P., 3327

 W., P. L. D., 3097
 WADDELL, C. W., 3296
 WADE, P., 3390j
 WAGENINGEN VARIETY LISTS,
 3054j, 3054k
 WAGER, V. A., 3149
 WAHLIN, B., 2791
 WAIBEL, C. W., 3165
 WAIN, R. L., 2243, 2865, 2866
 WALDO, G. F., 2392
 WALKER, H. B., 2852
 WALKER, J. C., 3053p
 WALKER, J. H., 2306
 WALKER, W. F., 2391i
 WALLACE, A., 3126
 WALLACE, J. M., 3145
 WALTON, R. R., 2843
 WANDER, I. W., 3135
 WANGERMANN, E., 3072
 WARDLAW, C. W., 3244
 WARK, D. C., 2831
 WARNE, L. G. G., 2822
 WATT, J. H., 2395, 2407
 WATLIE RESEARCH INSTITUTE,
 3443
 WEAVER, H. A., 2293
 WEAVER, R. J., 2434
 WEBB, L. J., 3028
 WEBB, P. C. R., 2504
 WEBRE, A. L., 3313
 WEBSTER, C. C., 3185
 WEINTRAUB, R. L., 2236, 2662

 WELCH, F. J., 2277
 WELLER, L. E., 2239
 WELLINGTON, R., 2391j
 WELLS, J. S., 3091, 3095
 WENDER, S. H., 2202, 2203, 3166
 WENE, G. P., 2740, 2742, 2876,
 3156
 WENT, F. W., 2858
 WENZL, H., 2460, 2462, 2909
 WESTALL, R. G., 2205
 DE WET, A. F., 2312
 WHALEY, W. G., 2216
 WHALLEY, T. G., 3287
 WHEELER, T. S., 2997
 WHIFFEN, W. H., 2382
 WHITE, D. G., 2416
 WHITE, L., 2304
 WHITEHEAD, G. B., 3160
 WHITSON, C., 3363v
 WIAIT, J. S., 2454
 WIEHE, P. O., 3185
 WILCOX, J., 2825, 2826
 WILD, H., 3029
 WILHELM, S., 2735
 WILLIAMS, D., 2660m
 WILLIAMS, E. J., 2303w
 WILLIAMS, R. O., 3218
 WILLIAMS, W. O., 2434
 WILLISON, R. S., 2496
 WILLS, J. MCG., 3197
 WILSKE, C., 2250
 WILSON, A. R., 2927
 WILSON, D. J., 2981
 WILSON, E. E., 2526
 WILSON, G., 3325, 3328
 WILSON, J. D., 30541
 WILSON, R. D., 2816
 WINTERINGHAM, F. P. W., 3376
 WIRWILLE, J. W., 2249
 WITT, R. H., 2680
 WITWER, S. H., 2246, 2800
 WOGLUM, R. S., 3153
 WOOD, S. L., 2557
 WOODCOCK, H. B. D., 3409
 WOODWARD, E. F., 3386
 WORK, P., 2301
 WYE COLLEGE DEPARTMENT OF
 HOP RESEARCH, 3444

 XABREGAS, J., 3037

 YADLIN, E. V., 2829
 YARBROUGH, M. V., 3297
 YOUNG, H. C., 2621
 YOUNG, V. A., 2711
 YOUNT, W. L., 2627

 ZACHER, F., 3054m
 ZAKOPAL, J., 2936, 2937
 ZAPOMETOV, N. G., 2818
 ZAUMEYER, W. J., 2756, 2759
 DEZEEUW, D. J., 2803
 ZEUMER, H., 2661k
 ZIMMERMANN, A., 3056
 ZIMMERMANN, J., 2424
 ZUKEL, J. W., 2675
 ZUKOVA, G. S., 2903
 ZÜRICH-OERLIKON AGRICUL-
 TURAL RESEARCH STATION,
 3445
 ZWINTZSCHER, M., 2457

INDEX OF NAMES

Horticultural Abstracts, Vol. XX

N.B.—Brackets round the name denote that this person, although not the author, was directly or indirectly concerned with the article.

- | | | |
|--|---|--|
| Aaron, I., 1428
Abbiss, H. W., 1834, 1837,
3076
Abbott, C. D., 455
Abdullaev, A. G., 991 | Anagnostopoulos, P. T., 574
Anderson, B. L., 3077
Anderson, E., 1151
Anderson, E. G., 202, 796a
Anderson, E. I., 1323 | Arcihovskaja, E. V., 2192,
3152
Arenz, B., 1744
Ark, P. A., 141, 291, 962
Armand, I. F., 244, 1619
50
, 1882, 1968a
543, 2581
1611, 2960 |
|--|---|--|

HORTICULTURAL ABSTRACTS

Errata Vol. XIX

- | | |
|--|--|
| Abstract 3566. Title.
P. v, column 3.
P. xxviii, column 2.
P. xxxiii, column 1.

P. lv, column 2.
P. lxxv, column 1. | Line 4. <i>For</i> 1949 <i>read</i> 1948.
<i>For</i> Burgos, J. J., 1770 <i>read</i> . . . 1700
<i>For</i> Iowa agric. Exp. Stat. 1948/49 <i>read</i> . . . 1947/48
<i>For</i> Avocado—root, oxygen requirements of, 2394 <i>read</i>
. . . 2395
<i>For</i> Iowa agric. Exp. Stat. 1948/49 <i>read</i> . . . 1947/48
<i>For</i> Passion fruit—pectin from, 3390e <i>read</i> . . . 3390d |
|--|--|

Errata Vol. XX.

- | | |
|--|---|
| Abstract 63. Line 3.
Abstract 143. Line 4.

Abstract 201. Author.
Abstract 473. Line 6.
Abstract 560. Title.

Abstracts 637. Author.
and 2447.
Abstract 979. Title.
Abstract 1110. Title.

Abstract 1445. Author.

Abstract 1783. Title.
Abstract 2248. Author.
Abstract 2488. Author.

" " Title. | <i>For</i> 19: 1791, 1795, 1976 <i>read</i> 19: 107, 1791, 1796, 1797
<i>For</i> <i>Polyporus sulphureus</i> and <i>S. squamosus</i> <i>read</i> <i>Polyporus sulphureus</i>
<i>For</i> Stoddard, L. A. <i>read</i> Stoddard, L. A.
<i>For</i> infection <i>read</i> injection
Line 4. <i>For</i> <i>Rev. romande Agric. Vitic.</i> <i>read</i> <i>Rev. hort. suisse</i>
<i>For</i> de Ferrière <i>read</i> Franc de Ferrière.

Line 4. <i>For</i> 1950 <i>read</i> 1949.
Line 3. <i>For</i> <i>Bull. Jamaica Dep. Sci. Agric.</i> <i>read</i> <i>Bull. Barbados Dep. Sci. Agric.</i>
<i>For</i> Makarov-Kožuhov, L. H. <i>read</i> Makarov-Kožuhov, L. N.
Line 4. <i>For</i> pages 187-92 <i>read</i> 129-70, bibl. 5.
<i>For</i> von Denfer, D. <i>read</i> von Denffer, D.
<i>For</i> Dominion Forest Service <i>read</i> Manitoba Forest Service.
Line 4. <i>For</i> [Publ.] <i>Dominion Forest Serv.</i> <i>read</i> [Publ.] <i>Manitoba Forest Serv.</i> |
|--|---|

- | | | |
|--|---|--|
| Alvarez García, L. A., 1963
Alvim, P. de T., 1236
(American Fertilizer), 3184
(American Phytopathological Society, Fungicide Committee), 750
American Pomological Society, 2144
Ammal, E. K. J., 987a
Ammann, G., 1809 | 3264, 3276, 3288, 3298,
3300, 3301, 3304, 3307,
3330
Ansiaux, J. R., 2258, 2259,
2860
Anthon, E. W., 672, 721, 1502,
1515
d'Aragona, G. G., 2212
Arceneaux, G., 240
Archard, J., 166 | Ayres, A. S., 2052
Azad, R. N., 871, 1742
Azzi, G., 2303b

B., G., 1534
B., G. T., 2819
B., N. C., 3060
B., R., 2953
Bachmann, F., 1495
Bachy, A., 3243 |
|--|---|--|

INDEX OF NAMES

- Backhausen, J., 1443
 Bacon, J. S. D., 1808h
 Bacon, O. G., 1620
 Badgett, C. O., 959b
 Baerecke, M.-L., 2915
 Bagley, F. D., 1075
 Bailey, C., 1294
 Bailey, F. L., 380
 Bailey, J. S., 1380, 1383, 1419a, 1436, 1556
 Bailey, P., 2873
 Baillie, A. J., 2660c
 Bain, F. M., 996
 Baines, R. C., 384, 1930, 3163
 Baird, W. P., 2307, 2715
 Baker, G. A., 2190
 Baker, H. C., 3264
 Baker, K. F., 352, 2797, 3067, 3074
 Baker, L. C., 1641, 2896
 Baker, R. E., 109, 2190
 Baker, R. S., 1246
 Baker, W., 959c
 Baker, W. A., 1686
 Baker, W. L., 1949
 Bakke, A. L., 1571
 Bakken, H. H., 343b
 Bakker, H. C., 675
 Bakker, J., 3062
 Balachowsky, A., 2636
 Balahovskii, S. D., 3390a
 Bălănescu, G., 953
 Balašev, L. L., 3039
 Balašov, P. K., 553
 Balch, R. T., 3314
 Bald, J. G., 1748, 1754, 2879
 Baldacci, A., 2181
 Baldacci, E., 133, 2516
 Baldoni, R., 2862
 Ballatore, G. P., 2432
 Balsoård, Swedish Association for Fruit Tree Breeding, 2145
 Baltadori, A., 2361
 Bampton, C. C., 3310
 Band, A. B., 1566b
 Bandurski, R. S., 1245
 Bandyopadhyay, K. S., 1111, 2085g
 Banga, O., 825
 Banzon, J., 454
 Baranov, E. I., 669
 Barbados, British West Indies Central Sugar Cane Breeding Station, 1169, 1170
 Barbados Department of Science and Agriculture, 2146
 Barbier, G., 665, 2473, 2725
 Barclay, A. E., 2302
 Barker, B. T. P., 451, 2472, 3390b, 3390c
 Barker, C., 2121a, 3354
 Barker, H. A. (Editor), 480
 Barker, J., 2966
 Barnard, C., 3031
 Barnard, T. T., 3084
 Barnes, A. C., 3266
 Barnes, H. F., 748
 Barnes, M. M., 2650, 2653
 Barnett, R. J., 2420
 Barr, C. G., 444
 Barret, J., 1301
 Barry, J.-P., 2329
 Barshad, I., 48a
 Barskii, Ja. S., 670
 Bartels, R., 1747, 2918
 Bartholomew, E. T., 3144
 Barton-Wright, E. C., 945
 Bartram, R., 689, 772
 Baširov, F. B., 111
 Baskaya, M., 2352
 Baskin, A. D., 659
 Basteleus, R., 114
 Basutoland Department of Agriculture, 494a, 3448a
 Bates, G., 3292
 Bates, G. H., 2123
 Batjer, L. P., 579, 2463
 Baudewijn, J., 305, 538, 3366
 Bauer, A. H., 1607
 Baumann, H., 525
 Baumgarten, A., 130
 Baumgartner, F. M., 2660d
 Beach, G., 348
 Beale, F. A., 1589
 Bear, F. E., 806
 Beater, B. E., 3363a
 Beck, G. E., 969
 Beck, K., 1773
 Becker, M. H., 810
 Beckley, V. A., 2658
 Beddall, J. L., 3392
 Bedouet, J., 2931
 Beeltje, E. L., 1152
 Beer, A. A., 1799
 Beer, R. E., 347, 1816
 Behr, L., 1808b, 3070
 Belgium, I.R.S.I.A., 3419
 Belikov, S. A., 56
 Belisario, M. C., 405
 Bell, J. M., 2677
 Benedict, H. M., 956, 1807, 3049
 Bennett, S. H., 2547
 Benson, A. A., 1247, 1274a, 2232
 Benson, N. R., 588
 Bentley, J. A., 1225
 Benton, R. J., 1910
 Beran, F., 1768
 Bercks, R., 1752, 1808c, 1808d
 Beresnev, A. E., 1340
 Berg, A., 2360
 Bergamin, J., 403
 Berger, C. A., 1808e
 Berger, K. C., 864, 1732
 (Bergeron, T.), 1217
 Berggren, G. H., 2690
 Bergh, F., 2482
 Berkley, E. E., 2018
 Berkman, B., 336
 Bermuda Department of Agriculture, 494b
 Bernhard, R., 1303, 1314, 1329
 Berry, L. J., 343c, 343x
 Berry, R. C., 2588
 Berthelot, P., 62
 Bertossi, F., 326
 Berwick, E. J. H., 1973, 2038
 Besemer, A. F. H., 183
 Bessa Ribeiro, M., 1396, 1397
 Bester, J. J. A., 435e
 Betzema, J., 895
 Bevenue, A., 1274b
 Bewley, W. F., 3053b, 3393
 Bhargava, P. M., 2660e
 Bhat, N. R., 1970
 Bhattacharya, P. B., 2053
 Bhattacharya, S. C., 995, 1003, 1004, 1005, 1006, 1012
 Biale, J. B., 3365
 Biasco, A., 1304
 Bick, I. R. C., 2121b, 3030
 van der Bie, G. J., 3259
 Bieberdorf, G. A., 2660f, 2843
 Bier, J. E., 143
 Bieri, F., 709
 Bigornia, A. E., 3223
 de Bijl, D., 1387
 Billardon, R., 1141
 Bing, F., 2867, 2871
 Biological Branch, N.S.W. Department of Agriculture, 258
 Biological Branch, Victoria Department of Agriculture, 3093
 Biological Council, 2124
 Biologische Zentralanstalt Berlin-Dahlem, 2175
 Biologische Zentralanstalt Braunschweig (Germany), 649, 2175
 Biraghi, A., 680, 2502, 2660g
 Birks, L. S., 2303g
 Biron, M., 110, 1390
 Bishop, H. J., 1662
 Bishop, L. R., 946
 Bisset, K. A., 2125
 Bitcover, E. H., 3135
 Bitenc, F., 2992
 Bitinsky-Salz, H., 2600
 Bitters, W. P., 1007, 3145
 Bittner, C. S., 1419b
 Black, W. A. P., 3052
 Blackburn, F. H. B., 2061
 Blackith, R. E., 2657
 Blackman, G. E., 786, 787, 796b, 2665
 Blaha, J., 1320
 Blair, C. A., 2577

INDEX OF NAMES

- Blair, D. S., 1373
 Blanc-Aicard, D., 2448
 Blaszyk, P., 1517
 Blatný, C., 2954, 2987, 2988
 Blaauvelt, W. E., 1873
 Lord Bledisloe, 1420
 Blencowe, J. W., 1714
 Bligh, R. D. L., 543
 Blin, H., 3098
 Blinn, R. C., 2651
 Blinov, L. F., 1913
 Bliss, D. E., 1939
 Blodgett, E. C., 683
 Blondeau, R., 1330, 1331
 Blondel, L., 992
 Blow, C. M., 3264
 Blumer, S., 678, 2499
 Bobb, M. L., 177, 2554
 Bode, O., 1745
 Bodenheimer, F. S., 819
 de Boer, G., 1152
 Bogdanova, V. S., 1446
 Bohart, G. E., 765
 Bohmont, D. W., 2676
 Bohn, G. W., 1658
 Bois, E., 987b
 Bojarincev, F., 534
 Boke, N. H., 374a
 Boken, E., 1424
 Boll, H. L., 2412
 Bolle, A. W., 586
 Bollen, A. G., 2304
 Bollen, W. B., 690
 Bolli, M., 577
 Bömeke, H., 1450, 1652
 Bondar, G., 2041, 2042
 (Bonifacio, —), 2969
 Bonnemaïson, L., 2961
 Bonner, J., 48b, 48c, 448, 1215, 1229, 2193
 Bonner, W. D., Jr., 1231, 2195
 Bonnet, J. A., 2054
 Booth, V. H., 265
 Borden, A. D., 1518, 2591
 Borden, R. J., 2055, 3291
 Bording, K., 2391a
 Borel, E., 1066
 Borg, Å., 723
 Borget, M., 2039
 Borgman, H. H., 626, 1387, 2578
 Borgström, G., 3370
 Borisenko, T. T., 1414
 Börner, C., 2594
 Bortels, H., 1566c
 Borthwick, H. A., 1270, 2218, 2219
 Borzi, Z., 2516
 Borzini, G., 145, 1538, 2601, 2974, 2975
 Bosch, E., 1608
 Botkin, C. W., 959j
 Bottger, G. T., 761, 762, 2654
 Bottini, E., 2271, 2646
 Boubals, D., 1451
 Bouchard, R. J. A., 1728
 Bougard, M., 1140, 1539, 2574
 Boulay, F., 2428
 Boulay, H., 77
 Bould, C., 124, 2362, 2469, 2470
 Bouquet, A., 3176
 Bouriquet, G., 2072
 Bourlet, G., 2082
 Boursnell, J. G., 1879a
 Bouyoucos, G. J., 1262
 Bovey, P., 158, 737
 Bovien, P., 2839
 Bovill, E. W., 2137
 Bowditch, J. B., 343u
 Bower, C. A., 807, 1622
 Bowers, J. L., 289
 Bowling, J. D., 3011, 3012
 Bowman, F. T., 97, 1427
 Bowman, G. F., 1985
 Box, H. E., 3363b
 (Boyce, H. R.), 244
 Boyes, W. W., 2647
 Boyle, F. P., 2230
 Braak, H. R., 1130a
 Bradbury, D., 1578
 Bradfield, A. E., 2355, 2356
 Bradford, E. A. M., 3167, 3364
 Bradford, F. C., 1327
 Bradford, R. H., 1327
 Bradley, C. E., 340
 Bradley, R. H., 221
 Bradley, W. G., 1686
 Bragg, K. K., 2712b
 Branas, J., 635
 Brandes, E. W., 3363u
 Brannon, D. H., 772
 Brannon, L. W., 2764
 Branton, C. I., 2990
 Brasfield, T. W., 187
 Bratley, C. O., 2454
 Brauns, A., 260
 Bray, D., 3245
 Breakey, E. P., 719, 2589
 Breazeale, E. L., 2864
 Breazeale, J. F., 2864
 Breider, H., 2425
 Brémond, P., 1566d
 Breny, R., 2957
 Brétignière, —, 2943
 Brett, P. G. C., 3274, 3275
 Brewer, H. C. (Editor), 1154
 Brichet, J., 1927
 Bridges, R. G., 3376
 Brierley, P., 1858
 Brill, G. D., 2726
 Brill, J. E., 883
 Brimblecombe, A. R., 2959
 Brindley, T. A., 1678
 British Columbia Department of Agriculture, 182, 2148
 British Honduras Department of Agriculture, 494c
 British Standards Institution, 1207
 British West Indies Central Sugar Cane Breeding Station, Barbados, 1169, 1170
 Broadbent, L., 1490, 1726, 1757
 Brock, R. B., 2417
 Brock, R. D., 2874
 Bröker, U., 1561
 Bronson, T. E., 1675
 Brooks, L. E., 2809
 Brooks, P. M., 1807
 Brooks, R. M., 100a, 1459
 Brown, C. A., 235
 Brown, G. B., 2121c
 Brown, J. B., 589
 Brown, J. W., 1226, 2236
 Brown, L., 179
 Brown, R., 796c, 1242, 2237
 Brown, R. T., 1960
 Browne, F. S., 631
 Bruer, H. L., 2500
 Brühlmann, J., 2713
 Brüne, F., 458
 Bry, A., 100b, 2340
 Bryant, W. G., 374j
 Bryner, W., 581
 Buchholz, A. B., 2288
 von Buchwald, A., 1986
 Budagovskii, V. I., 1309
 Buhl, C., 1642, 1645
 Bühler, H., 2199, 2268
 Bullock, R. M., 656, 1321
 Burdick, E. M., 3165
 Bureau of Entomology and Plant Quarantine, 198a
 Bureau of Entomology and Plant Quarantine, Division of Plant Disease Control, 1483
 Bureau of Sugar Experiment Stations, Queensland, 1171
 Burgess, A. H., 2983, 2984, 2985
 Burke, O. D., 1739
 Burkholder, C. L., 2342
 Burkholder, W. H., 856, 2505
 Burmistova, N. D., 596
 Burrell, A. B., 770, 1536, 2465
 Burrell, R. C., 1274x
 Burris, R. H., 530, 535k, 2228
 Burroughs, L. F., 3390d
 Burström, H., 535b, 2250
 Burtch, L. M., 823
 Burton, H. B., 3390g
 Burton, W. G., 2971, 3053c
 Burtt, B. L., 435a
 Buryhina, E. K., 1647
 Butler, E. J., 1155
 Butler, G. D., 1560
 Butterfield, H. M., 3103a, 3103b

INDEX OF NAMES

- Butz, W. T., 1209
 Buzacott, J. H., 3277
 Buzi, C. C., 58, 2323
 Buzzi, L., 542
 Bykovskii, V. Ja., 802, 2723
 Bynum, E. K., 1119
 Byrde, R. J. W., 2521
 C., V., 37
 Cabrera, L., 1991
 Cadman, C. H., 611, 1477, 2401
 Caffery, C., 3302
 Caillavet, H., 1300, 3394
 Cairaschi, E. A., 166
 Calavan, E. C., 383
 Calder, A. J., 959d
 Caldwell, J., 1714
 Callbeck, L. C., 912
 Calma, V. C., 389, 2048
 Calvin, L. D., 2635
 Calvin, M., 1274a, 2232
 Calvino, E. M., 3063
 Cameron, A. E., 1915
 Cameron, C., 3278
 Cameron, D. R., 343d
 Cameron, E. E. G., 3363c
 Camp, W. H., 1274c
 Campbell, A., 2660h
 Campbell, G. A., 471
 Campbell, G. K. G., 1077
 Campbell, J. A., 1634
 Campbell, J. C., 886, 914, 3053d
 Campbell, R. E., 2825
 Campbell, R. W., 2420
 Campden Fruit and Vegetable Preservation Research Station, 3410
 Canada Department of Agriculture, 1344, 2149
 Canada Department of Agriculture, Division of Entomology, 244, 1172, 2537
 Canada, Minister of Agriculture, 2150
 Canadian Committee on Food Preservation, 2126
 Canham, A. E., 2813
 Cannon, F. M., 3053e
 Cannon, R. C., 2959
 Canright, J. E., 1879b
 Capinpin, J. M., 1976
 Capó, B. G., 2016, 2054
 Capoor, S. P., 1715
 Capucci, C., 2343
 Carañgal, A. R., Jr., 454
 Cardinell, H. A., 444, 1338, 1528
 Carew, H. J., 852
 Carey, L. C., 2088
 Caribbean Commission Research Branch Central Secretariat, 472
 Carlsen, E. W., 1132
 Carlson, E. C., 2749, 2750
 Carlson, F. W., 160, 1510, 1519
 Carlson, R. F., 1307, 1583
 Carlton, R. A., 1040
 Carman, G. E., 2650, 2652
 Carncross, J. W., 865
 Carne, W. M., 652
 Carolus, R. L., 1701, 2731
 Carpenter, J. B., 1095, 3261
 Carrera, C. J. M., 2291, 3083
 Carrington, A. J., 2062
 Carter, C. L., 959d
 Carter, E. P., 236
 Carter, W., 2036
 Cartier, R. D., 779
 Cartmill, W. J., 2899
 de Carvalho, D., 3195
 Cassidy, T. P., 3051
 Castorina, L., 582
 Cation, D., 764, 2613
 Catlow, E., 2374
 Catoni, G., 655, 2495
 Cavanillas, L., 2283
 Cawthron Institute, 494d
 Cebrii, M. P., 2426, 2427
 Cehomskaja, V. M., 1000
 Central Tobacco Research Station, Rustenburg, 2996
 Centre de Recherches de la Ligue Pomologique pour la Défense du Fruit Belge, 2151
 "Cephalium", 3090
 Cernuda, C., 1149
 Cernuda, C. F., 2073
 Ceylon Rubber Research Scheme, 1173
 Ceylon Tea Research Institute, 1191
 Chabannes, J., 665, 2473, 2725
 Chacravarti, A. S., 2051, 2110
 Chadwick, L. C., 346, 367
 Chakravarty, H. L., 2078
 Challinor, S. W., 3390d
 Chamberlaine, F. S., 938
 (Chambers, P. C.), 2152
 Chance, B., 959e
 Chandler, S., 1526
 Chandler, S. C., 729, 2553
 Chandler, W. H., 1156, 1876
 Chandrasekharan, S. N., 2085a, 3173
 Chang, L. T., 2771
 Chaplin, P. H., 3064
 Chapman, H. D., 1011, 1920, 1968b
 Chapman, R. K., 1675
 Chapot, H., 1031, 3115
 Chapron, R., 621
 Charley, V. L. S., 1157, 2127, 3378
 Charpentier, L. J., 1119
 Chatterjee, R., 952
 Chaudhary, M. T., 3239
 Chauvin, R., 1977
 Chavan, V. M., 1970
 Cheal, W. F., 1479
 Cheema, G. S., 839, 988
 Cheesman, E. E., 435b, 1050, 1978, 3363d, 3363e
 Chen, L. H., 1034
 Chen, Y. T., 48h
 Chervenak, M., 1923
 Chervenak, M. B., 3161
 Cheshunt Experimental and Research Station, 1174, 3411
 Chessin, M., 1789
 Chevalier, A., 998, 3191, 3192, 3351, 3360
 Chia-Shen Li, *see* Li, C. S.
 Chiasson, T. C., 2698
 Chick, H., 452
 Chiesa Molinari, O., 1158
 Child, R., 3220
 Childers, N. F., 1426, 2077
 Childs, H., 459
 Childs, L., 717
 Chilean Iodine Educational Bureau, 2128
 Chilton, S. J. P., 238, 239, 241f, 1588, 3321, 3332
 Chin, C. T., 1770
 Chisholm, R. D., 1496
 Chittenden, A. E., 3207
 Chittenden, R. J., 3254
 Cholnoky, B. J., 822
 Chona, B. L., 3319
 Chopra, J., 1101
 Chothia, H. P., 1804
 Chou, C. Y., 1033, 1034, 3172
 Chouard, P., 511
 Choudhury, S., 1127
 Choudhury, S. D., 1003, 1004
 Chowdhury, S., 1926
 Christ, E. G., 728
 Christian, W. A., 2105
 Christiansen, G. S., 2194
 Christie, G. A., 1116
 Christopher, E. P., 249
 Chu, H. T., 3322
 Chu, T. S., 24
 Chun-Teh, Chin, *see* Chin, C. T.
 Chupp, C., 852
 Churchill, L. J., 1537
 Chu-Ying Chou, *see* Chou, C. Y.
 Ciccarone, A., 1057, 2850
 Ciferri, R., 1027, 1051, 1053, 1055, 1057, 1784, 2501, 2629, 2660i, 2668
 Cini, M., 3103c
 Cintron, R. H., 3105
 Claassen, C. E., 337, 474, 1808f
 Clara, F. M., 2536
 Clark, B. E., 277

INDEX OF NAMES

- Clark, C. C., 1353
 Clark, L. H., 2085b, 2383
 Clark, V. L., 1812
 Clarke, C. A., 1686
 Clarke, I. D., 2119
 Clarke, W. F., 3363f
 Clarke, W. S., Jr., 1428
 Clarke, W. W., Jr., 1323
 Clarkson, F. E. M., 3287
 Clausen, R. T., 501
 Clayton, C. N., 650
 Clayton, E. E., 929
 Clemente, L. J., 1654
 Clendenning, K. A., 1274d, 1274e, 1274f
 Clifton, C. E., 480
 Clore, W. J., 808, 1685
 Clothier, G. E., 2303c
 Clulo, G., 662, 2360
 Clydesdale, C. S., 2712a
 Cmora, N. Ja., 2967
 Cochran, J. H., 174
 The Coconut Research Scheme (Ceylon), 2176
 Coetzee, W. H. K., 435e, 2108, 2112
 Coffee Research and Experimental Station, Lyamungu, Moshi, Tanganyika, 3433
 Cohen, A., 1009, 3137
 Cohn, A. E., 1635
 Coit, J. E., 1898
 Colby, A. S., 2412
 Cole, C. E., 125
 Cole, D. J., 40
 Coleman, L. C., 2733
 Coleman, N. T., 1241
 Collier, H. C., 3355
 Collier, W. A., 2611
 Collins, J. C., 1775
 Collins, J. L., 411
 Collins, W. F., 3029
 Colonial Insecticides Committee, London, 1175
 Colonial Products Advisory Bureau, 3447
 Colonial Products Research Council, 1176
 Colwell, W. E., 927
 Combs, O. E., 2688
 Cometti, L., 3094
 Commoner, B., 3053f
 Commonwealth Bureau of Biological Control, 2660j
 Commonwealth Mycological Institute, 144
 Commonwealth Scientific and Industrial Research Organization, Australia, 1178
 Compin, A., 2086
 Congrès National de la Prune et du Pruneau, Agen, 2167
 Connecticut Tobacco Sub-Station, Windsor, 1201a
 Connell, J. J., 3193a
 Connell, W. A., 2562
 Connors, C. H., 1855
 Conrad, J. P., 2275
 Contardi, H. G., 1394
 Cook, A. H., 2989
 Cook, C. W., 201
 Cook, H. A., 2117, 2118
 Cook, H. T., 2880, 2939
 Cooke, F. C., 2005, 2129
 Cooke, G. W., 902, 2278
 Cooley, J. S., 1433
 Coombe, B. G., 664, 1487
 Coomber, H. E., 3207, 3235
 Coon, B. F., 1795
 Coony, J. J., 1265, 1892
 Cooper, J. F., 3155
 Cooper, W. C., 2027, 3138
 Cooper, W. E., 3332
 Copeland, E. B., 2085c
 Corbaz, J., 1347
 Cordier, G., 456
 Corner, E. J. H., 2074
 Cornfield, A. H., 2303d
 Corns, W. G., 2242
 Cornuz, L. A., 987c
 Cosgrove, D. J., 3040
 Cosmo, I., 1388, 1395, 2431
 Costa Rica, Ministry of Agriculture and Industries of the Second Republic, 3412
 Coste, A., 1707
 Cottenie, A., 2869
 Cottier, W., 1566b
 Cotton, B. C., 180
 Couderc, V., 658
 Coupin, A., 2391b
 Courshee, R. J., 1441
 Courtieu, P., 306
 Courtney, W. D., 3077
 Covington, H. M., 1411, 1419d, 1808p
 Cowart, C. E., 241a
 Cowart, F. E., 1404
 Cox, J. A., 741, 1489, 1494, 1503, 2541, 2586
 Cox, J. F., 460
 Cox, M. B., 2709, 2710
 Cox, R. S., 845, 2760, 2802
 Crafts, A. S., 206, 207, 234, 1159, 1568, 2674
 Crandall, B. S., 773, 1949
 Crandall, P. R., 395a, 2121r
 Crane, J. C., 1330, 1331, 2352
 Crane, M. B., 343e
 Crang, A., 457b, 3390e
 Cravens, M. E., 2391c
 Cravens, M. E., Jr., 443
 Cripps, E. G., 2984, 2985
 Critchfield, H. J., 943
 Crosier, W. F., 2099
 Crossa-Raynaud, P., 3179
 Crowdy, S. H., 1471, 2494, 2497
 Crowell, H. H., 2807
 Crowther, D. S., 3395
 Cruickshank, E. M., 48h
 Cruz, S. R., 1268, 3358
 Cruzado, H. J., 1952
 C.S.I.R., Australia, 1177
 Cuillé, J., 1977
 Culbertson, J. T., 3125
 Cullinan, F. P., 198b
 Cumber, R. A., 818
 Curcio, M., 322, 3007, 3022
 Currence, T. M., 2847
 Currier, H. B., 205, 1159, 2209, 2674
 Curtis, D. S., 1017, 1896, 1968b
 Curtis, L. C., 2806
 Cuthbert, F. P., Jr., 834
 Cuthbertson, J. D., 2318
 Cutright, C. R., 152, 198c
 Cutting, C. V., 3187
 Cyprus Department of Agriculture, 473, 2152
 D., 1618
 Dadant, R., 3231
 Daepp, H. W., 3055
 Dahl, E., 507
 Dahmus, M. E., 2715
 Dalbro, K., 2254
 van Dalfsen, J. W., 3264
 Dalmeyer, W. H. M., 2637
 Damast, J. Z., 2349
 D'Amato, F., 854
 Dana, B. F., 2762
 Daniel, F. C., 3339
 Daniel, H. A., 2709
 Daniel, W. H., 1348
 Danielson, L. L., 209, 227
 Danielsson, B., 1287
 Danish State Seed Testing Station, 3053g
 Dansk Gartnerforening, Copenhagen, 2153
 (Danvig, A. M.), Editor, 2153
 Daraseliya, N. A., 3343
 Dark, S. O. S., 265, 3053h
 Darlington, C. D., 3103d, 3396
 Darpoux, H., 707, 1533, 2455, 2515
 Darrow, G. M., 103, 608, 1370, 1372, 1376
 Das Gupta, S. N., 3240
 Daulatram, S. J., 1103
 Davel, H. B., 1195
 David, P. A., 1056
 David, W. A. L., 1553, 2648
 Davidson, J. H., 1582
 Davidson, L. R., 3262, 3263, 3264
 Davidson, O. W., 353

INDEX OF NAMES

- Davidson, T. R., 2916
 Davies, M. H. E., 2354
 Davies, R. G., 1491, 2597
 Davis, A. C., 320
 Davis, E. A., 516
 Davis, G. B., 898, 959f, 959g, 959h
 Davis, G. E., 2691
 Davis, G. N., 271, 1666
 Davis, J. F., 2729
 Davis, L. H., 352, 3074
 Davis, W. C., 3190
 Davison, D. C., 3053i
 Davison, J. R., 590, 1427
 Dawe, T. C. R., 343f
 Dawson, C. D. R., 264, 2774
 Day, C. T., 1204
 Day, L. H., 1485
 Day, M. W., 2708
 De, B. N., 1085, 3171
 Dean, E. P., 1508
 Dean, F. P., 718, 1566n
 Dean, R. W., 2570
 Dearborn, C. H., 2693
 DeBach, P., 1968c, 3193b, 3193c
 DeFrance, J. A., 231
 (Dehaene, A.), 2883
 Dekker, K. D., 3294
 Delanoue, —, 2549
 Delanoue, P., 191
 Delap, A. V., 2266, 2303e
 Delassus, —, 148
 Delgado, R. F., 2077
 Delmas, H. G., 1329
 DeLong, D. M., 135, 1461
 DeLong, G. E., 959t
 di Delupis, S. D., 1216
 Demaree, J. B., 1456
 DeMent, J. D., 3286
 von Denffer, D., 2248
 Dennett, R. K., 1808i, 1808j
 Deonier, M. T., 1954
 Department of Agriculture for Scotland, 546, 622, 776a
 Department of Scientific and Industrial Research, Food Investigation, *see* D.S.I.R., Food Investigation
 Department of Scientific and Industrial Research, New Zealand, *see* D.S.I.R. New Zealand
 Dermen, H., 100c, 608
 Dermine, —, 102
 Dermine, E., 630
 Dermott, W., 838, 1713
 Deshusses, L., 1347
 Desikachar, N., 2121d
 Desrue, A., 153
 Detar, J. E., 1464
 Detroux, L., 194
 Dewald, F. L. P., 442
 Dhareshwar, S. R., 839
 Diachun, S., 1788
 Dick, J., 3326, 3329
 Dicker, G. H. L., 727, 2545, 2546, 2565
 Dickey, R. S., 141, 291
 Dickson, G. H., 70
 Dickson, R. C., 849, 1808g, 2660k
 Diehl, R., 2885
 Dietrick, E. J., 1968c
 Dijkstra, S. P., 334
 Dikuser, I. G., 3046
 van Dillewijn, C., 3283
 Dimitman, J. E., 1023
 Dimock, A. W., 352, 964, 1818, 1819, 2084, 3103e
 Dion, A., 779
 Dionigi, A., 2303f
 Dios, R., 959i, 3036
 Directie van den Landbouw, The Hague, 319, 2614, 2950
 Ditman, L. P., 2834, 3054c
 Division of Entomology, Pretoria, 1206
 Division of Plant Disease Control, Bureau of Entomology and Plant Quarantine, U.S.A., 1483
 Division of Plant Industry, N.S.W. Department of Agriculture, 307
 Dixon, R. D., 535c
 Djou, Y. W., 3158
 Dlabola, J., 3069
 Dodds, K. S., 3202
 Dolan, D. D., 249
 Domato, J., 3124
 Dominica Department of Agriculture, 2154
 Dominick, C. B., 3023
 Dominik, T., 1317
 de Donnea de H., R., 3366
 Donohoe, H. C., 198d
 Dormal, S., 1564, 2660 i
 Dormer, K. J., 2214
 Dorner, 2341
 Doty, R. E., 2065
 Douarache, L., 2486
 Dougherty, G., 1274h
 Douglass, C. D., 2203, 3166
 Doutt, R. L., 735, 2593
 Dow, G. F., 1204, 1377
 Downes, J. A., 2660m
 Downie, W. A., 450
 Dowson, W. J., 1835
 Dragožinskaja, V. M., 71, 1298
 Drain, B. D., 332
 Draper, R. P., 1273
 Driggers, B. F., 163, 173, 728
 Drosdoff, M., 3182
 Drouineau, G., 2727
 D.S.I.R., Food Investigation, 1133
 D.S.I.R. New Zealand, 486
 Dublin Department of Agriculture, 2388, 2882
 Dubrovickaja, N. I., 21
 Ducharme, E. P., 1022
 Dudley, J. E., Jr., 1675
 Dufrénoy, J., 437
 Duisberg, P. C., 959j
 Dullum, N., 2368
 Dumas, P., 185
 Dumont, L., 169
 Dunegan, J. C., 692, 710
 Dunlap, A. A., 1723, 2660n
 Dunn, E., 1767, 2944
 Dunn, H. C., 3354
 Dunn, L. E., 900
 Duperrex, A., 1867
 Durmišidze, S. V., 2121e
 Duruz, W. P., 2130
 (Dustan, G. G.), 244
 Dustin, P., Jr., 1235
 Dutt, J. O., 2690
 Dutt, S., 1042
 Dutta, S., 995, 1003, 1004, 1005, 1006, 1012
 Duval, G., 1069
 (Duvet, M.), 2883
 Dyer, R. A., 1196
 Eames, A. J., 791, 792
 East Africa High Commission, 3413
 East African Agricultural and Forestry Research Organization, 3413
 Easterbrook, B., 2666
 East Malling Research Station, 3414
 Eastwood, H. W., 1981
 Eaton, J. K., 661, 2357, 2597
 Ebeling, W., 1030
 Ebess, K., 399
 Ebihara, T., 640
 Eckert, J. E., 196
 Edelman, J., 1808h
 Eden, T., 3335
 Edinburgh and East of Scotland College of Agriculture, 3415
 Edminster, F. C., 363
 Edmond, J. B., 1953, 1957
 Edmundson, W. C., 279, 959s
 Edwards, C., 3134, 3138
 Edwards, G. R., 897
 Edwards, M. G., 2660o
 Edwards, M. V., 2707
 Edwards, R. L., 303
 Eggenberger, W., 2090
 Eichler, W., 2739, 2769, 2827, 2958
 Eigstil, O. J., 1235
 Éire Minister of Agriculture, 3448b

INDEX OF NAMES

- Ekbrant, L., 1660
 Eldredge, D. B., 2729
 Eley, G. (Editor), 2131
 El-Helaly, A. F., 2761
 Elliott, J. T., 1130b, 2056
 Elliott, M., 3103f
 Ellis, D. E., 845, 2802
 Ellis, N. K., 221, 3041
 Ellison, J. H., 1736
 El-Shishiny, E. D. H., 2197
 Elwell, H. M., 2709, 2710
 Elze, D. L., 3121
 Emanuelli, A., 234
 van Emden, J. H., 430, 431
 Emge, R. G., 872
 Emilsson, B., 1737, 2897
 Emmert, E. M., 309, 1703
 Emsweller, S. L., 975
 Enfiadžjan, A., 1864
 Engstedt, G., 2305
 Ennis, W. B., Jr., 210, 1578
 Entomological Branch N.S.W.
 Department of Agriculture, 154, 252, 361, 1609, 1610, 1933
 Entres, K., 1797
 Erdman, L. W., 100d
 Eremeev, G. N., 923, 1285
 Erhart, H., 413
 Erickson, L. C., 2699
 Ermolaeva, E. Ja., 2200
 Ernst, A., 1879c
 Erwin, A. T., 2784
 Escamilla, G., 1986
 Esselen, W. B., Jr., 1556
 van Essen, W. J., 3264
 Europa Publications Ltd., 2132
 Evans, A., 1810
 Evans, H., 3212
 Evans, H. C., 298
 Evanson, J., 1613
 Everist, S. L., 1944
 Eversdijk, M. S., 38
 Evreinoff, V. A., 606, 1297, 1965, 1966
 Ewen, E. S., 2121b
 Fabricatore, J. A., 2660p, 2817
 Fagel, G., 313
 Faivre-Amiot, A., 1533
 Falck, R., 2509, 2510
 Fanelli, L., 53
 Fang, C., 1033, 3172
 Fantini, G., 2646
 F.A.O., 461, 1205, 2043, 3233
 Farish, L. R., 216
 Farrall, A. W., 129
 Farwell, F. E., 794
 Fattinger, D., 1566e
 Faulkner, R. P., 2133
 Favarger, C., 1822
 Federacion Nacional de Cafeteros de Colombia, 2009
 La Fédération Nationale des Producteurs de Plants de Pommes de Terre, 2888
 Federico, L., 3381, 3382
 Federov, M. A., 59
 Feljdmán, A. L., 3164
 Fenwick, D. W., 1772
 Ferguson, H., 1107
 Ferguson, W., 782, 2697, 2720
 Fernando Villamil, G., 400
 Fernie, L. M., 512
 Ferrand, M., 2029, 2030
 Ferrer, L. G., 3002
 Ferrer, R., 211, 233, 2679
 Ferrer-Dalgado, R., 3349
 Ferwerda, F. P., 2011
 Fessenden, G. R., 1274g
 Fidler, J. C., 1138, 1710
 Fielding, W. L., 3299, 3303
 Fiester, D., 1887
 Fiji Department of Agriculture, 1201b
 Fikry, A., 713
 Filinger, G. A., 2100
 Filmer, R. S., 2751
 Findlay, S. P., 1274h
 Fink, H. C., 776b
 Finkner, A. L., 2387
 Finley, J., 776c, 1530
 Finn, H., 2866
 Fiori, G., 2560
 Fiorito, G., 599
 Fischer, —, 1500
 Fischer, C. W., Jr., 374b, 374e
 Fischer, G. W., 1472, 1480
 Fischer, H., 709
 Fischer, M. A., 343g
 Fischer, R., 2913
 Fischer, W., 2661k
 Fišer, F., 2986, 2991, 2993
 Fisher, C. E., 1573
 Fisher, F. E., 1934
 Fisher, V. J., 1350
 Fisher, W. D., 343h
 Fitzpatrick, R. A., 3053k
 Fitzwater, W. D., Jr., 2603
 Fjäderhane, A. M., 2391d
 Flanders, S. E., 3193c, 3193i
 Fleming, H. K., 1409, 2445
 Fleming, W. E., 2555, 2556
 Fleschner, C. A., 1968c
 Fletcher, L., 944
 Fletcher, S. B. D., 190
 Fletcher, W. P., 3264
 Flood, A. E., 2355, 2356
 Florida Soil Science Society, 942
 Flory, W. S., Jr., 2121f
 Flosdorf, E. W., 3001
 Flügel, A., 48d
 Focan, A., 1971
 Fogg, G. E., 2673
 Foister, C. E., 2927
 Food and Agriculture Organization of the United Nations, Washington, 461, 1205, 2043, 3233
 Food Investigation, Department of Scientific and Industrial Research, 1133
 Foote, M. W., 2660y
 Forbes, R. B., 535d
 Ford, C. H., 964, 1819
 Forest Insect Survey, Forest Insect Investigations, Division of Entomology, Department of Agriculture, Canada, 1172, 2537
 Forest Service, U.S. Department of Agriculture, 1160
 Forestry Commission, 3416
 Forgeur, G., 1466
 Fortunatov, I. K., 2399
 Fosler, G. M., 1870
 Foster, A. C., 763, 2632
 Foster, C. B., 1110
 Foster, H. H., 697, 714
 Fowler, R. L., 1052
 Fowler, T. E., 2506
 Fox, C. J., 1794
 Fox, W. B., 2960
 Franc de Ferrière, P. J. J., 637, 2447
 France d'Outre-Mer, Office de la Recherche Scientifique Coloniale, 475
 Franklin, D., 2106
 Franklin, E. W., 436, 2087
 Franklin, H. J., 2592
 Franklin, DeL. F., 598
 Frankton, C., 2712b
 Fraselle, E., 3363g
 Fraselle, J., 3230
 Fraser, L., 299
 Fraser, R. H., 2998
 Frazier, J. C., 1594a
 Frazier, W. A., 1629, 1808i, 1808j, 2848
 Frear, D. E. H., 1544, 2445, 2630
 Fredericton Dominion Experimental Station, N.B., 476
 Free, M., 2134
 Freeland, R. O., 14
 Freeman, J. F., 213
 de Freitas, A. G. B., 1392, 2440
 French, G. W., 2729
 French, R. B., 455
 Frey, W., 1521, 2644, 2780
 Frey-Wyssling, A., 2207
 Frézal, P., 192, 387
 Frick, K. E., 731
 Friedman, H., 2303g
 Friend, A. H., 168
 Friend, W. H., 3143
 Friesen, H. A., 229
 Fritzsche, R., 84, 578, 2476

INDEX OF NAMES

- Frolich, E., 1885
Fruit and Vegetable Preservation Research Station, Campden, 3410
Fulling, E. H., 3025
Fulton, B. B., 650
(Fulton, H. G.), 244
Fulton, R. A., 980
Fulton, R. W., 1808k, 1808 l
Fults, J. L., 959o
Funck, E., 1866
(The Fungicide Committee of the American Phytopathological Society), 750
Funke, H., 1652
Furneaux, B. S., 2366
Furr, J. R., 2027
Furtado, C. X., 1274i, 2085d
- Gadd, C. H., 2069, 2085e
Gaertner, E. E., 1574
Gage, J. C., 2642
Gage, T. B., 2202, 2203, 3166
Gagnard, —, 2868
Gagnard, J., 1707
Gagnebin, F., 343i, 853
(Gahm, O. E.), 881
Galinsky, I., 959k
Gallay, R., 2459, 2503
Galle, F. C., 986
Gallegly, M. E., Jr., 873, 874
Gallego, M. F. L., 1032
Gallemore, C., 2202
Galley, R. A. E., 3215
Galston, A. W., 15, 1246
Galtier, —, 1914
Gammon, N., Jr., 535d
Gammon, W. M., 789
Gandarillas, H., 1727
Gandhi, S. R., 1036, 2033
Gane, R., 2121g
Ganguly, B. D., 1037, 1078
Garbuzova, A. P., 308
Garcia, G. M., 2823
Garcia Mendez, M. A., 2085f
Gardella, C., 3032
Gardiner, J. E., 2660q
Gardner, V. R., 81, 85, 129
Garga, R. P., 871
Garman, P., 2754
Garner, R. J., 2290, 2331, 2391e
Garner, W. W., 1774
Garrard, H. L., 2364
Garrett, J. C., 3054d
Garriss, H. R., 650
Gartner, J. B., 1863
Garvin, J. W., 796d
Gascon, J.-P., 1091
Gault, H. S., 2699
Gäumann, E., 2135
Gawadi, A. G., 1248
Gayford, G. W., 116, 2365, 3147
- Gaylor, F. C., 2815
van Geel, J. D. W., 44, 895
Geier, P., 158
Geisler, E., 2778
Geisthardt, G., 2660r
Geldermalsen State Horticultural Advisory Service, 477
Geljandbein, P. S., 593
Georgia Coastal Plain Experiment Station, 2393
Georgia Experiment Station, 3417
Gerber, H., 1438
Gerhardt, F., 758
Germ, H., 1272
Germain, R., 1130c
Gerretsen, F. C., 1274j, 2303h
Gersdorf, E., 260
Gerstel, D. U., 3050, 3053 l
Gertler, S. I., 753, 761, 762
Geslin, H., 667
Gevorkjan, A. M., 1448
Ghesquière, J., 733
Gianfagna, A., 1879d
Gibbs, L. C., 2321
Gibbs, M., 2303u
Gieger, M., 391
Giese, H., 532
Gigante, R., 2660s, 3015
Gilbert, F. A., 1376
Gilbert, S. G., 3182
Gilbert, S. M., 3225
Giles, J. E., 2874
Gill, D. L., 1859
Gillard, S. O., 270, 1038
Gilliat, J., 436
Gils, A., 2260
van Gils, G. E., 423
Gimingham, C. T., 1766, 2949
Ginai, M. A., 552
Ginsburg, J. M., 1509, 1808m, 2751
Ginsburg, L., 1641, 2647
Giri, K. V., 1145
Githens, T. S., 3397
Gjoerum, H. B., 2618
Glackens, I., 1291
Glass, E. H., 2099, 2643
Glasscock, H. H., 1713
Glen, R., 2960
(Glendenning, R.), 244
Glenn, E. M., 2479
Glover, P. M., 429
Gloyne, R. W., 1221
Godchaux II, L., 237
Goddard, D. R., 2208, 3053m
Godfrey, G. H., 2740
Goheen, A. C., 1476
Goidanich, G., 2303i, 2933
Goldacre, P. L., 517
Goldberg, M., 1547
Goldschmidt, W. B., 2021
Goldsmith, E. D., 1227
- Goldsworthy, M. C., 710, 753, 763
Gollmick, F., 1393
Golubinskii, I. N., 1326, 2982
Gómez, L. A., 2016
González, L. A. B., 2999
Gonzenbach, C., 908
Goodall, D. W., 1989, 1994
Gooderham, G. B., 79
Goodey, J. B., 1847
Goodey, T., 776d
Gopalkrishnan, K. S., 2012
Gopalan, K., 2001, 2075
Gordon, K. A., 1905
Gorham, P. R., 1274d, 1274e, 1274f
Gorlenko, M. V., 1719
Gorodskaja, O. S., 3017
Goriss, H. R., 1808n
Gorter, C. J., 1705
Got, N., 2419
Gottlieb, D., 1532
Goudie, A. G., 584
Goudreaull, P., 1341
Gould, C. J., 358, 830, 970, 975, 2719, 3085
Gouny, P., 2727
Graham, C., 175
Grainger, J., 1421, 1542, 2721, 2732
(Granhall, I.), 2145
Granhall, I., 1369b, 2314, 2480
Grard, A., 2430
Grasso, V., 3053n
le Graverend, E., 2136
Grebinskii, S. O., 921, 961
Green, D. E., 965, 1820, 2828
Green, E. L., 751
Greenham, C. G., 40
Greenslade, R. M., 1550
Greenway, P. J., 2020
Greenwood, D. E., 2838
Greenwood, M., 1990
Greenwood, W., 241b
Greer, S. R., 3183
Greffier, P., 2369
Gregory, F. G., 1237, 1238
Gregory, P. H., 1753, 1838
(Greig, A. M. W.), 485
Gressitt, J. L., 3158, 3193c
Grewé, F., 1708
Grey, C. H., 1848
Griffiths, D. G., 457a, 2359
Griffiths, J. T., Jr., 1934
Griggs, W. H., 1322
Grigsby, B. H., 785, 2685
Grindrod, J., 3241, 3267
Grisson, P., 2956
Grootenhuis, J. A., 28
Grosjean, J., 2612
Gross, C. R., 1361
Grossbard, E., 2660t
Groszmann, H. M., 388, 2758, 3249

INDEX OF NAMES

- Groves, A. B., 1433, 2628
 Grubb, N. H., 2402, 2403
 Grummitt, O., 2660u
 Gründler, H., 2248
 Grunnet, H. Ø., 2368
 Gualdi, G., 3024
 Grünseis, F., 1276
 Guba, E. F., 3065
 Gubányi, E., 2244
 Gueit, M., 3058, 3080
 Guenther, E., 2121h
 Guerreiro, M. G., 118
 Guest, P. L., 1920
 Guha, M. P., 1979
 Guha, P. C., 3353
 Guillermo Ortiz, R., 922
 Gukasjian, A. S., 555
 Gümmer, G., 987d
 Gunckel, J. E., 1879h
 Günthart, E., 916
 Gunther, F. A., 2650, 2651, 2660v
 Gupta, B. M., 3019
 Gupta, N. C. D., 3363h
 Gupta, S. L., 1566f
 Gupta, S. S., 3363i
 Gurlev, A. S., 833
 Gustafson, F. G., 514, 1602
 Guthrie, J. D., 1039
 Gutierrez, M. E., 919, 2995
 Gutiev, G. T., 1044, 1945
 Gutter, J., 3151, 3193f
 Guyer, R. B., 1808q
 Guyot, H., 1883
 Guzzini, D., 1369c, 2322
 Hä, K., 2381
 Haagen-Smit, A. J., 340
 Haarer, A. E., 373, 585, 1805, 2010
 van Haarlem, J. R., 2446
 Haas, A. R. C., 1014, 1020, 1890, 1894, 1895, 1917, 1919, 3119, 3140
 Haber, E. S., 3053o
 Habib, P. C., 285
 Habran, R., 262, 615
 Hadiwidjaja, T., 1126
 Häfliger, E., 766
 Hagedoorn, A. L., 3398
 Hagedorn, D. J., 283, 3053p
 Hageman, R. H., 1562, 2077
 Hagen, K. S., 735, 2593
 Hagood, E. S., 241c
 Hahn, —, 2298
 Haight, G. S., 359
 Haines, F. M., 2210
 Hall, H. H., 2705
 Hall, R. M., 3303
 Hall, W. C., 273, 1661, 2808
 Hallaire, M., 667
 Hallemans, A., 155, 161, 749, 1616
 Haller, E., 1823
 Haller, H. L., 776e, 1565
 Haller, M. H., 1333
 Halliday, H. E., 1488
 Halma, F. F., 1885, 1888
 Hamar, N., 2104
 Hamilton, A., 1507
 Hamilton, R. G., 1967
 Hammarlund, L., 1549
 Hammer, O. H., 198e
 (Hammond, G. H.), 244
 Hamner, C. L., 518, 1360, 1587, 1863
 Hance, F. E., 1590
 Hand, D. B., 2230
 Handford, R. H., 2792
 Hanf, M., 2670
 Hanly, V. F., 526
 Hannen, J., 2659, 3390j
 Hansch, C., 2238
 Hänsel, H., 1672
 Hansen, C. M., 129
 Hansen, H. N., 1830, 2735
 Hansen, L., 2155
 Hanson, C., 2875
 Hanson, N. S., 241d
 Hansson, Å., 2346
 Hardenburg, R. E., 446, 447
 Harder, R., 987d
 Hardin, L. J., 1274u
 Harding, P. L., 1936
 Hardy, E., 1899
 Hardy, F., 1972
 Hare, W. W., 282, 959v
 Harler, C. R., 2068, 3334, 3341
 Harley, C. P., 2380
 Harmon, F. N., 1398
 Harmsen, G. W., 509
 Harper, H. J., 2276
 Harris, G., 2989
 Harris, R. V., 686
 Harris, W. B., 156, 1432
 Harrison, A., 3376
 Harrison, T. B., 215
 Hart, J., 2712a
 Hart, R., 2389
 Hartley, C. W. S., 2031, 3357
 Hartley, G. S., 1550
 Hartley, W., 1881
 Hartmair, V., 2716, 2814
 Hartman, H., 1888
 Hartmann, H. T., 1334
 Hartmans, E. H., 443
 Hartzell, F. Z., 1505
 Harvey, C., 2809
 Harvey, E. M., 3390f
 Harvey, W. A., 1568
 Hasanain, S. Z., 3193d
 Hasek, R. F., 349, 374f
 Hashe, J. W., 2842
 Haskell, G., 287, 863, 1683
 Hassan, H. H., 1532
 Hassebrauk, K., 3053q
 Hassid, W. Z., 1153a, 2196
 Hastings, R. J., 360
 Hatcher, E. S. J., 1224
 Hatcher, J. J., 1254
 Hatfield, M. R., 1765
 Hathaway, W. B., 1872, 1873
 Hatt, H. H., 832, 3363j
 Hauschild, I., 1740, 1746, 2948
 Haut, I. C., 1384
 Hauville, —, 2325
 Havas, L. J., 2252, 2256
 Havis, A. L., 2380
 Havis, L., 2535
 Hawes, M. J., 3390g
 Hawthorn, L. R., 1273
 Hayes, W. B., 993
 Hayne, D. W., 1528, 1531
 Hayter, C. N., 1664
 Hayward, H. E., 804
 Hazina, E. P., 1651
 Hean, A. F., 1643
 Heath, O. V. S., 1240
 Hebert, L. P., 240
 Hedou, —, 2929
 Hedou, J., 2968
 Heggstad, H. E., 321
 Heimsch, C., 1694, 1695, 1696
 Heinicke, A. J., 2464
 Heinze, K., 1755, 1808o
 Hélaüt, M., 52
 Helson, G. A., 1754, 3018
 Helson, V. A., 780
 Hely, P. C., 253
 Hemberg, T., 2972
 Hembitzer, E., 2572
 Hemphill, D. D., 11, 1706
 Henderson, C. W. W., 2221
 Henderson, J. H. M., 1229
 Henderson, S. M., 532
 Hendricks, R. H., 2274
 Hendricks, S. B., 2219, 2728
 Hendrickson, A. H., 591, 592, 1354, 2280, 2370, 2451
 Hendrix, J. W., 1629, 1716
 Henke, F., 1682
 Henrici, M., 1274k
 Henry, P., 1091
 Hensill, G. S., 2631
 Hepburn, G. A., 1662
 Hernández, M. S., 1998
 Hernandez, T. P., 217, 219, 223, 224, 241e
 Hernández Vidaurreta, M., 434
 Herr, F., 1318
 Hervey, G. E. R., 266
 Hes, J. W., 428, 1109, 2066
 Heuberger, J. W., 698
 Hewetson, F. N., 1296
 Hewitt, E. J., 2270, 2472, 2770, 2895
 Hewitt, W. B., 1459
 Hewlett, M. A., 965, 1820, 2828
 Hey, A., 3053r

INDEX OF NAMES

- Hey, G. L., 1615, 2619
 Heyer, F., 1879e
 Heymann-Herschberg, L., 2438, 2439
 Hibon, E., 1129, 2072
 Hidaka, Y., 850
 Hiddink, G. J., 1516
 Hield, H. Z., 1916, 3130
 van Hiele, T., 439, 441
 Higgins, F. H., 1362
 Hilbert, G. E., 3438
 Hilborn, M. T., 711, 1544, 2573
 Hilbrich, P., 1558
 Hildebrandt, A. C., 48k
 Hilditch, T. P., 3354
 Hilkenbäumer, F., 568, 1161, 1316, 1336, 2338
 Hill, A. G. G., 1077
 Hill, A. R., 2563
 Hill, A. V., 3018
 Hill, H., 120
 Hill, R. G., Jr., 1384
 Hills, G. R., 2274
 Hills, O. A., 1219, 2783
 Hillsborough Agricultural Research Institute, Northern Ireland, 494g
 Hinman, F. G., 1678
 Hintze, S., 2094
 Hirschhorn, E., 3320
 Hirshfeld, A., 2303a
 Hirst, E. L., 3103g
 Hirst, F., 1371, 1595
 Hitchcock, A. E., 374k
 Hitchins, P. E. N., 1698
 Hoagland, D. R., 2257
 Hoare, A. H., 1281
 Hoare, E. R., 1442
 Hobbes, J. C., 404, 3363k
 Hobbis, E. W., 2374
 (Hockett, R. C.), 492
 Hodge, W. H., 1961
 Hoeksema, K. J., 1452
 Hoffman, A., 1808f
 Hoffman, J. C., 220, 1633, 1634
 Hoffmann, F. H., 1796
 Hoffmann, K. D., 256
 Hofmaster, R. N., 2838
 van Hofsten, C. G., 796e
 Hogan, T. W., 171
 Hogg, W. H., 2477
 Höhn-Ochsner, W., 1274 l
 Højendahl, K., 2303j
 Holden, C., 3053m
 Holdridge, L. R., 1984
 Holley, R. W., 2230
 Holloway, T. E., 1117
 Holly, K., 787
 Holmes, E., 783, 1614
 Holmes, F. O., 2872
 Holmes, G. D., 2707
 Holmgren, A. H., 199, 201
 Holttum, R. E., 1879f, 1879g, 3363 l
 Holwill, P. J. A., 573
 Holz, W., 1517, 1566g, 2580
 Home, J. M., 674
 Homès, M. V., 2258, 2259, 2860
 Honey, E. E., 1607
 Hong Kong Agricultural Department, 2156
 Hood, J. J., 698
 Hood, M. L., 1263
 Hooker, W. J., 1760, 2934
 Hoos, S., 285
 Hopkins, H. T., 2728
 Hopkins, J. C., 1835
 Hopkins, J. C. F., 3016, 3029
 Horber, E., 725
 Horne, F. R., 797, 1600
 Horowitz, B., 3014
 Horspool, R. P., 3144
 Horticultural Education Association, 1179, 3418
 Horton, F. F., 3073
 Hoskins, W. M., 2649
 v. Hösslin, R., 1604
 Hotin, A. A., 3042
 Hough, L., 3363m
 Hough, L. F., 1294
 Houston, F. G., 1274m
 ten Houten, J. G., 1566h
 Howard, F. L., 1540
 Howard, H. W., 879, 880, 888
 Howard, R. A., 435c
 Howe, G. H., 2391j
 Howe, O. W., 890
 Howe, W. L., 269
 Howes, F. N., 1211, 1212, 3189
 Howland, A. F., 2825, 2826
 Howland, S. R., 1668
 Howlett, F. S., 2506
 Hruschka, H. W., 2095
 Hubbeling, N., 255
 Huber, G. A., 830
 Hubert, K., 2952
 Huberty, M. R., 1015
 Hockett, H. C., 1655
 Hudson, J. P., 496, 2405, 2684, 2811
 Huelin, F. E., 3384
 Hughes, C. G., 1116, 2047, 3317
 Hughes, W. A., 386
 Huglin, P., 1451
 Hulbary, R. L., 1778
 Hulme, A. C., 1139, 2359
 Hülsmann, B., 63
 Hummer, R. W., 790, 2765
 Humphries, E. C., 1993
 Hunter, A. S., 1724
 Hunter, D., 1552
 Hunter, J. G., 1256
 Huntley, G., 415
 Hus, P., 648, 704
 Husemann, C., 1731
 Husz, B., 2583
 Hutson, R., 176
 Hutton, E. M., 1748, 1749, 3053s
 Hutton, K. E., 138, 1484
 Huxley, J., 1162
 Hyams, E., 462
 Ide, L. E., 1808q
 I.F.A.C., 2158
 Ildis, P., 2102
 Iljin, G. S., 920
 Imperial Chemical Industries Ltd., 2295
 (Imperial Chemical Industries), Jealott's Hill Research Station, 502
 (Indian Coffee Board), 478
 Indian Council of Agricultural Research, 3420
 Indian Tea Association, Tocklai, 3421
 I.N.E.A.C., 2157
 Ingalls, R. A., 286
 Ingold, C. T., 1762
 Ingram, J. W., 1119, 3324, 3331
 4th International Congress of Soil Science, 2180
 de Irmay, H., 2028
 I.R.S.I.A., Belgium, 3419
 Isaac, I., 716
 Islip, H. T., 3040
 Istituto Scientifico Sperimentale per i Tabacchi, 323
 Ivanova, T. M., 3152
 Ivašenko, A. A., 1803
 Ivens, G. W., 786
 Iyengar, B. R. Y., 1150
 Jacks, H., 877, 878
 Jackson, F. W., 1275
 Jackson, L. E., 460
 Jacob, A., 1255
 Jacoboni, N., 75, 576
 Jacobs, P. B., 2120
 Jacobs, W. P., 2215
 Jacobson, H. G. M., 2692
 Jacobson, M., 2654
 Jacques-Félix, H., 2035
 Jaeger, E. C., 3399
 Jagoe, R. B., 1591
 Jähnl, G., 2887
 Jävenois, A., 1339, 1467
 Jakobsen, J. M., 2303j
 Jakowska, S., 1227
 Jakuškina, N. I., 869
 Jamaica Department of Agriculture, 2159, 2160
 James, D., 457b
 Jamison, V. C., 376, 2293
 Jancke, O., 1677, 2575
 Janes, B. E., 2775

INDEX OF NAMES

- Janke, O., 198f
 Janne, E. E., 1854
 Jannone, G., 740
 Jansen, I. I., 1215
 Jany, E., 2877
 Jarcev, V., 2386
 Jarrett, J., 343j
 Jealott's Hill Research Station
 (I.C.I.), 502
 Jeffery, C. W., 132, 2647
 le Jehan, 162
 Jenkins, D. W., 474
 Jenkins, J. M., Jr., 230, 1808p,
 1852
 Jennings, R. F., 3131
 Jensen, C. O., 2121i
 Jensen, D. D., 963
 Jermoljev, E., 2922, 2930
 Joary, P., 166
 Johannessen, G. A., 1697
 Johansen, C., 719, 2589
 Johansen, G., 1482, 1763
 Johansson, E., 104
 John, C. M., 1058, 1063
 John Innes Horticultural Insti-
 tution, 3422
 John, T. J., 2002
 Johnson, A., 2683
 Johnson, A. W., 2237
 Johnson, B. L., 3047
 Johnson, E., 2701
 Johnson, F., 1480, 1843
 Johnson, H. B., 3372
 Johnson, J., 6, 321, 325, 343k,
 343 l, 1790
 Johnson, L. R., 1771
 Johnson, W. A., 248
 Johnston, C. J. R., 1931
 Johnston, F. A., Jr., 394
 Johnston, J. C., 3129
 Johnston, M., 1591
 Johnston, R. E., 204, 604, 609
 Johnston, S., 1481
 Johnstone, D. B., 2660y
 Johnstone, G. R., 1274n
 Jones, E. W., 2770, 2895
 Jones, F. G. W., 836
 Jones, H. A., 279, 1666
 Jones, I. D., 1555, 2635
 Jones, J. K. N., 2303k, 3363m
 Jones, J. O., 657, 838
 Jones, L. H. P., 2273
 Jones, M. D., 3038
 Jones, P. A., 1064, 3228
 Jones, R. A., 2279
 Jones, R. L., 48e, 2678
 Jones, S. G., 1155
 Jones, T. H., 2452a
 Jones, W. N., 3133
 Jones, W. W., 1013
 de Jong, P., 3336, 3344, 3345
 Joon, B. S., 2863
 Jørstad, I., 2140, 2508, 2935
 Joshi, B. C., 2121o
 Joshi, N. V., 1123
 Joshi, S. G., 1123
 Joslyn, M. A., 1153a
 Jouis, E., 2136
 Jover, H., 2032
 Jucker, H., 644a
 Judkins, W. P., 1335
 Juganova, O. N., 1473
 Juhren, M. C., 862
 Juillet, —, 292
 Juillet, A., 868
 Julien, J. H., 2064
 K., 2235
 Kadam, B. S., 324
 Kalbfleisch, W., 2303 l
 Kaličava, A. D., 381
 Kalinin, F. L., 284
 Kalinkevič, A. F., 3046
 Kalmykov, S. S., 1415
 Kamat, M. N., 3318
 Kammermann, N., 2942
 Kamp, J. R., 369, 374c
 Kapoor, S. L., 2890, 2891,
 2892, 2893
 Kappert, H., 374d
 Kar, B. K., 959 l
 Kar, J., 1733
 Karnatz, H., 2615
 Kárpáti, Z., 2452b
 Karunakaran, K. C., 2111
 Karvata, S., 905
 Kaserer, H., 1258
 Kassanis, B., 311
 Katyal, S. L., 562, 1010
 Katz, M., 126
 Katznelson, H., 79
 Kaufman, J., 2095
 Keane, F. W. L., 554
 Kearns, H. G. H., 2617, 2624,
 2625
 Keeping, G. S., 1988
 Kehl, F. H., 2066, 3338
 Kehren, L., 2115
 Keller, K. R., 948
 Kelly, C. B., 2446
 Kelly, J. T., 457c
 Kelly, S., 1594b
 Kelly, W. C., 1724
 Kelman, A., 875
 Kelsheimer, E. G., 1566i
 Kemmer, E., 2333, 2348
 Kenaga, E. E., 2765, 2766,
 2767
 Kendall, L., 3390e
 KenKnight, G., 1665
 Kennedy, J. S., 2492
 (Kent, F. L.), 2124
 Kent, G. C., 2934
 Kenten, R. H., 48f, 1274o
 Kentucky Agricultural Experi-
 ment Station, 2161
 Kenworthy, A. L., 93, 1250,
 1356
 Kerharo, J., 3176
 Kerr, T. W., Jr., 3102
 Kervégant, D., 1143
 Kesselring, H., 2620
 Kessler, H., 463, 464, 666
 Kessler, J. L., 882
 Keyworth, W. G., 328, 3053t
 Khalil, A. I., 2197
 Khan, A. A., 1880
 Khan, K. F., 1087
 Khanna, K. L., 1096, 1097,
 1111, 2051, 2053, 2085g,
 2110
 Kidd, F., 2358
 Kidson, E. B., 1702
 Kiely, T. B., 1928
 Kienholz, J. R., 1472
 Kieser, M. E., 457d, 2398,
 3390h
 Kilby, B. A., 2660q
 Kilby, M. M., 2117, 2118
 Kilby, W. W., 3181, 3183
 Kimball, M. H., 3126
 Kimbrough, E. F., 20
 Kimme, D. C., 2303m
 King, A. S., 2372
 King, E. J., 3400
 King, H., 2121j
 King, H. L., 176
 King, J. A., 2303n
 King, J. L., 2660w
 King, J. R., 1029
 King, K. M., 1611
 King, N. J., 2046, 3315
 King, T. A., 1603
 King, T. H., 659
 Kingdon-Ward, F., 1122
 Kinman, C. F., 49
 Kiplinger, D. C., 349
 Kirby, R. H., 3235
 Kirby, R. S., 1814
 Kirienko, M. V., 316
 Kiriukhin, G., 746
 Kirkpatrick, H. C., 682
 Kirsanina, E. F., 921
 Kišpatić, J., 824
 Kjellander, E., 2599
 Kleczkowski, A., 677
 Klement, R., 1274p
 Klemm, M., 1679
 Klešnin, A. F., 9
 Klingman, G. C., 795
 Klinkenberg, C. H., 687
 Klinker, J. E., 1690, 3053u
 Klinkowski, M., 2769, 2782
 van der Kloes, L. J. J., 90
 Klose, A. A., 1146
 Klose, N., 3401
 Klostermeyer, E. C., 2914
 Klotz, L. J., 385
 Knapp, R., 2178a
 Knorr, L. C., 1022
 Knowles, W. H. C., 3272,
 3278, 3423

INDEX OF NAMES

- Knowlton, G. F., 2557
 Knudsen, P., 2540, 2839
 Knudson, L., 3348
 Knust, H. G., 2057
 Kobel, F., 465, 1369d, 1369e, 1440, 3369
 (Kobel, F.), 2172
 Kobuski, C. E., 2184
 Koch, L. W., 3020
 Kocián, L., 3379
 Kofranek, A. M., 374b, 374e
 Kogekar, V. K., 3053v
 Kohl, H. C., 1870
 Köhler, E., 1746
 Kohls, H. L., 267
 Kole, A. P., 910
 Kolesnikova, N. V., 3390a
 Koljasev, F. E., 2285
 Kondo, I. N., 1447, 2435
 Kondrackii, A. A., 2422
 Koning, H., 212
 Konovalov, I. N., 2225
 van Koot, Y., 12
 Kopaczewski, W., 3265
 Kopetz, L. M., 243, 1729
 Koppien, P., 1452
 Korödi, L., 2830
 Koroleva, N. I., 1511
 Korten, —, 2604
 Kosareva, Ju., 558
 Kostjuk, P. N., 147
 Kovačević, I., 568
 Kovačević, Z., 757
 Kovalava, T. N., 1381
 Kovalj, T. A., 1163
 Koverga, A. S., 48g
 Koverga, E. L., 48g
 Kozlov, E. N., 1649
 Kozłowski, A., 1244
 Kraak, M., 1566h
 Kraevoi, I. M., 1693
 Kraevoi, S. Ja., 2773
 Král, C. J., 2923
 Kramer, A., 343m, 1808q, 2098, 2121q
 Kramer, P. J., 1164, 2209
 Kraus, E. J., 987e
 Kreitman, G., 198g
 Kretschmer, G., 1218
 Kreutzer, W. A., 857
 Krishnamurthy, S., 1150
 Krishnamurti, C. R., 1145
 Krishnan, P. P., 3353
 Krochmal, A., 1389, 2321
 Krone, B. P., 343n
 Kropman, M., 2121k
 Krotkov, G., 1806
 Krukoff, B. A., 3361
 Krüssmann, —, 2396, 3103h
 Kuehner, C. L., 1369f
 Kuenen, D. J., 195
 Kuhlman, G. W., 607, 613, 625, 644b
 Kuhn, L., 186
 Kükenthal, H., 972
 Kulash, W. M., 1793
 Kulikova, M. F., 2776
 Kulp, D. A., 41
 Kunkel, R., 959s
 Kunte, Y. N., 1001
 Küppers, H., 64, 1316
 Kurganova, M. I., 2224
 Kurokami, T., 640
 Kurtz, E. B., Jr., 3388
 Kuznecov, V. V., 1299
 Kuznets, G. M., 3131
 Kvarachelia, N. T., 1043
 Kvičala, B. A., 2794, 2947
 Lachman, W. H., 1580, 1581
 La Cour, L. F., 3103d
 LaFleur, W., 362, 374f
 Lagasse, F. S., 393
 Laibe, B., 3079
 (Laird, R.), 2881
 Lai-Yung Li, *see* Li, L. Y.
 Lal, K. N., 928, 1098, 2049
 Lal, T. B., 1743
 Lamb, R. C., 2391j
 Lambardi, N., 3198
 Lambers, M. H. R., 402
 Lambert, C., 2969
 Lampitt, L. H., 1641
 Lana, E. P., 3053w
 Landovský, F., 1598
 Lane, G. H., 909
 Lange, W. H., Jr., 2558, 2749, 2750
 Langenau, E. E., 2121h
 Langer, C. A., 1350
 Langford, M. H., 3261
 Lansade, M., 911, 2926
 Lantz, H. L., 1369g
 Lanza, F., 3375
 Lapière, L., 1277, 1310
 LaPlante, A. A., Jr., 1566j
 Large, J. R., 3186
 Larose, E., 3006
 Larsen, E. C., 2894
 Larsen, P., 2344
 Larsson, G., 343s, 2337
 LaRue, R. G., 1906
 Laskaris, T., 967, 3071
 Lathrop, F. H., 711, 2573
 Laties, G. G., 2201
 Latta, R., 2744
 Latuasan, H. E., 1049
 Laudelout, H., 3242
 Laudencia, P. N., 2812
 Lauffer, M. A., 343g
 Laurie, A., 365, 368, 374f, 374i, 374j, 1868, 1869, 1871
 Laurini, M., 2862
 Lauritzen, J. I., 1099
 Lausanne Horticultural Research Station, 1180
 Lawes Agricultural Trust [Rothamsted], 1181
 Lawrence, J. M., 2303o
 Lawrence, W. J. C., 22, 1266
 Lawrey, V. L., 188
 Leach, J. G., 2627
 Leach, L. D., 2749, 2750
 Leach, R., 2008
 Lear, B., 915, 2804
 Leatherdale, D., 2302
 Lebickaja, K. A., 605
 Lecrenier, —, 102
 Lecrenier, A., 614
 Lee, W. A., 1209
 Leefe, J. S., 2696
 Leeper, G. W., 2273
 de Leeuw-Polak, B., 497
 van Leeuwen, E. R., 1499
 Lefèvre, G., 2448
 Leggatt, C. W., 286
 Legris, P., 3350
 Legros, R., 3006
 Lehr, J. J., 860
 Leira, A. R., 3352
 Lemarchand, S., 3250
 Lenander, S.-E., 2466
 Léonard, J., 2085h
 Leonard, O. A., 216, 391
 Leone, I. A., 296
 Leria Esmoris, J., 2016
 Leroy, J.-F., 1125
 (Leslie, W. R.), 2163
 Letouzey, R., 3361
 Leubuscher, C., 3268
 Levine, M., 2213
 Lewis, D., 3
 Lewis, F. H., 2525
 Lewis, H. C., 3193e
 Lewis, M. T., 2840
 Lewis, P., 435a
 Lewis, R. D., 2121 i
 Lewis, T., 3386
 Lewis, W. A., 3186
 Leyendecker, P. J., 835, 2786
 Leyvraz, H., 2452c, 2452d, 2478, 2485
 Ležava, V. V., 2449
 Lhoste, J., 1551
 Li, C. S., 1002, 2771, 3170
 Li, J. C. R., 948
 Li, L. Y., 1002, 1033, 3170, 3172
 Liao, S. C., 1723
 Libby, W. C., 959m
 Libes, R., 2335
 Lieberman, F. V., 765
 Liebig, G. F., Jr., 2141
 Lienart, J.-M., 1999
 van Liere, W. J., 25
 Liger, P., 1403
 Lihnell, D., 2660x
 Lillieroth, C. G., 1737
 Limber, D. P., 3088
 Lincoln, R. E., 2198, 2846

INDEX OF NAMES

- Lindeberg, G., 1130d
 Lindenbergh, D. J., 509
 Lindgren, D. L., 1941
 Lindner, R. C., 668
 Linn, M. B., 872, 1532
 Linsley, E. G., 2638
 Lipecakaja, A. D., 1646
 Lisavenko, M. A., 1278
 List, G. M., 172
 Lister, C. A., 386
 Littauer, F., 3150, 3193f
 Little, J. E., 2660y
 Little, L. D., 1824
 Liu, H. P., 3316
 Livingston, A. E., 2179
 Livšić, I. Z., 1506
 Ljukova, L. A., 921
 Lloyd, A. A., 3269
 Lloyd, N. C., 189, 1492
 Lloyd, W., 3196
 Lobko, N. K., 2564
 Locke, L. F., 3054d, 3188
 Locke, S. B., 302
 von Loesecke, H. W., 3402
 Loest, F. C., 300
 Loewel, E. L., 1290, 1366,
 1435, 2332
 Lombard, T. A., 3142
 Lona, F., 2220
 Long Ashton Agricultural and
 Horticultural Research
 Station, 3424
 Loomis, H. F., 3359
 Loomis, N. H., 1404, 1405
 Loomis, W. D., 1274v
 Loos, C. A., 2069, 2070
 López, G. H., 1052
 Lorenz, O. A., 1681
 Lott, W. L., 1419c, 2191
 Loustalot, A. J., 211, 232, 233,
 432, 1149, 2679, 3182
 Lowe, J. S., 2857
 Lozzia, G., 2551
 de Luca, Y., 2810
 Lucas, G. B., 930
 Luce, W. A., 689, 1437, 1464
 Luchetti, G., 654, 2474, 2475
 Luchini, R., 867
 Lucie-Smith, M. N., 3110, 3111
 Luckett, E. J. R., 3289
 Luckwill, L. C., 1358, 2303p,
 2494, 2497
 Lugeon, A., 560
 Lüthi, H., 2121m
 Luthra, J. C., 3026
 Lutz, J. M., 1954, 2939
 Lyle, E. W., 3099
 Lyle, J. A., 1716
 Lynch, L. J., 2841
 Lyon, A. G., 879, 880
 Lyons, F. B., 2106
 M.-L., H. [Martin-Leake, H.],
 793, 1105, 1112
 Maan, W. J., 771
 McAlpin, D. M., 1019, 1909
 McArthur, J. M., 768
 Macaulay Institute for Soil
 Research, Aberdeen, 1182
 McAuliffe, C., 34
 McCall, G. L., 208
 McCallan, S. E. A., 1559, 1601
 Maccanti, M., 2474, 2475
 McClean, A. P. D., 1115, 1922
 (McClellan, —), 973
 McClellan, W. E., 3081
 McClure, T. T., 1041
 McDonald, H., 1808r
 (McDonald, J.), 473
 McDougall, W. A., 3333
 McGeorge, W. T., 660, 2864
 MacGillivray, J. H., 1653,
 1654, 1684
 McGilvray, D. I., 3103g
 McGregor, A. J., 2269
 McGuire, D. C., 1700
 Macherauch, O., 1288
 MacIntire, W. H., 26, 1274u,
 1787
 McIntyre, W., 611
 McKay, R., 2870, 2920
 McKeen, C. D., 2734, 2824
 McKinlay, K. S., 743
 Mackintosh, D. L., 2100
 McKnight, T., 1944
 Mackov, F. F., 16, 31
 MacLagan, D. S., 1546
 McLarty, H. R., 123
 McLaughlin, J. H., 3210
 Maclean, A., 3305
 McLean, D. M., 2779
 MacLean, N. A., 971
 McMartin, A., 2704, 3273,
 3279, 3281, 3323
 McMullen, A. I., 422
 McMunn, R. L., 2319
 McMurtrey, J. E., Jr., 3011,
 3012
 Macself, A. J., 3404
 MacSwain, J. W., 2638
 Mäde, A., 535e
 Madel, W., 3043
 Madhuram, G. H., 3173
 Madsen, H. F., 2591
 Magelli, E., 2844
 Magie, R. O., 1846, 3082
 Magness, J. R., 49
 Maguire, B., 199
 Maher, C., 3227
 Maheshwari, P., 535f
 Mahlstede, J. P., 1856
 Mahmud, K. A., 1808s
 Maier, E. A., 2706, 3285, 3302,
 3306, 3309, 3363n
 Maillet, A., 184
 Maine Agricultural Experi-
 ment Station, 479
 Maines, W. W., 2556
 Major, F., 3040
 Makarevskaja, E. A., 2245
 Makarov-Kožuhov, L. N.,
 1445
 Makarov, N. A., 33
 Malaguti, G., 2789
 Malan, E. F., 1076, 1897
 Malaya, Rubber Research In-
 stitute, 3257, 3258
 Malençon, M. G., 1940
 Mallamaire, A., 1067
 Mallik, P. C., 1037, 1078, 1086
 Malta Department of Agricul-
 ture, 1183
 (Maltais, J. B.), 244
 Maltshewsky, N., 1462
 Manalo, G. D., 2081
 Mandigo, J. H., 2484
 Mándy, G., 2461
 Mangelsdorf, A. J., 3270
 Manil, P., 1463
 Manitoba Forest Service, 2488
 Mann, A. J., 554, 567
 Mann, C. E. T., 3264
 Mann, L. K., 1653, 1704
 Mann, P. J. G., 48f, 1274o
 Manning, W. E., 119a
 Mansfeld, K., 1529, 2605
 Manson, G. F., 1611
 Manzel, R., 2579
 Mapson, L. W., 48
 Marcelli, E., 959n
 Marcus, O., 1808z
 Mareschal, G., 623
 Marh, A. T., 3164
 Mariman, G., 2418
 Marinucci, M., 575
 Markin, M. I., 1400, 2429
 Markley, K. S., 474
 Markov, N. V., 550, 559
 Marković, A. A., 966
 Markwalder, —, 1841
 Marloth, R. H., 375, 3128
 Marr, J. C., 589
 Marsh, R. H., 1274q
 (Marsh, R. W.), 2124
 Marsh, R. W., 2617
 Marshall, G. E., 1486, 2542,
 2639
 Marshall, J., 768
 Mársico, D. F., 55
 Marsolat, R., 51
 Martelli, G. M., 2660z
 Marth, P. C., 2233, 2380
 Martin, D., 1861, 2092
 Martin, H., 198h, 2634, 3661a
 Martin, J. P., 1929, 3120
 Martin, J. T., 754
 Martin, L. F., 3312
 Martino, C., 3005
 Martyn, E. B., 2006
 Martyr, R. F., 2351
 Marudaranjan, D., 1792
 Mašinskaja, L. P., 2490

INDEX OF NAMES

- Mašková, J., 2695
Mason, A. C., 1496, 2264
Mason, C. L., 695
(Mason, G. S.), 244
Massa, L., 3180
Massachusetts Agricultural Experiment Station, 1184
Massee, A. M., 2539
Massing, W., 193
Mather, K., 3396
Matheson, J. K., 2137
Mathon, C.-C., 1900
Mathys, G., 158
Matthewman, W. G., 2741, 2781
Matthews, J. D., 2289
Matthews, R. E. F., 1750, 1751
Mauch, A., 1363
Maume, L., 1408
Maurel, H., 2810
Maurer, K. J., 551, 1418
Maurer, R. H., 3165
Mauri, N., 2310
Mauritius Department of Agriculture, 2162
Mauron, —, 949
Maxwell, C. W. B., 2587
Maxwell, N. P., 2851, 3143
May, A. W. S., 736
Mayeux, H. S., 2740
Mayne, J. E., 1113, 3201
Mayne, W. W., 1065, 2017
Mazoyer, R., 2727
Meahl, R. P., 1824, 3100
Meara, M. L., 3363i
Mecartney, J. L., 1274z
Medina, J., 3213
Medvedev, P. F., 1289
Meek, W. E., 531
van der Meer Mohr, J. C., 940
Meuse, B. J. D., 2208
Mehl, S., 1566k, 1566 l
Mehner, H., 2268
Mehrotra, O. N., 2049
Meier, G., 1336
Meiffren, M., 1995
Meinders, H. C., 3038
Meith, H. C., 3132
Melin, E., 2229
Mellor, F. C., 2530
Melsted, S. W., 2267
Meltzer, J., 885, 895, 2645
Melville, R., 453
Menagarišvili, A. D., 2449
Menon, H. B., 2409, 3175, 3222
Menon, K. P. V., 2007, 3224
Menon, N. S., 3363o
Menzel, R., 1527
Merfield, A. G., 535g
Merkenschlager, F., 2640
Merny, G., 1089, 1982
Merrett, D. C., 1019
Merrill, G., 1295
Merrill, L. G., Jr., 173
Merrill, T. A., 85
van der Merwe, J. H., 1274r
van der Merwe, W., 2889
Merzari, A. H., 959p
Mészöly, G., 2849
Metcalfe, C. R., 2292
Metcalfe, T. P., 48e
Metlickiĭ, L. V., 1000
Metlickiĭ, Z. A., 2375
Meuli, L. J., 392, 1956
Mewissen, F., 571
Meyer, E., 1741
Meyer-Hermann, K., 1501
Mezzetti, A., 3178
Michaelson, M. E., 959o
Michelbacher, A. E., 1512, 1620, 1721, 2875
Michelmores, A. P. G., 1130e
Michigan Agricultural Experiment Station, 3448c
Michigan State Board of Agriculture, 3448c
Michon, R., 2566
Michurin, I. V., *see* Mičurin, I. V.
Mičurin, I. V., 1165
Middlekauff, W. W., 1512, 1676, 2875
Middleton, J. T., 962
Mihailova, P. V., 3004
Milbrath, J. A., 684, 1458
Mildbraed, J., 972
Mileško, A. F., 548
Miller, D. J., 3387
Miller, H. N., 1846
Miller, J. C., 1957, 2097
Miller, J. H., 688
Miller, L. W., 734
Miller, M. E., 2660v
Miller, P. R., 646, 647, 934, 1612
Miller, P. W., 690
Miller, V. L., 358, 3077
Millington, W. F., 1879h
Milner, W. M., 1860
Milovanova, L. V., 3374
Minarik, C. E., 2662
Minatta, M. J., 1029
Miner, F. D., 2567
Minges, P. A., 1704, 2856
Minina, E. G., 519
Minister of Agriculture, Canada, 2150
Ministère de l'Agriculture, Paris, 117
Ministerio de Agricultura e Industrias, Costa Rica, 1106
Ministry of Agriculture, Dublin, 1201c
Ministry of Agriculture and Industries of the Second Republic, Costa Rica, 3412
Ministry of Agriculture, London, 48i, 106, 119b, 278, 288, 314, 343o, 343p, 343q, 343r, 858, 1369h, 1597, 1617, 1808t, 2294, 2608, 2712c, 2748, 2845, 2928, 3053x, 3053y, 3103i, 3103j
Minnesota Agricultural Experiment Station, 3448d
Minshall, W. H., 780, 1586
M'Intosh, T. P., 1725
Minz, G., 2532, 3148, 3151
Mirmanjan, V. A., 382
Mironov, E. V., 1648
Mission Horticole, Service de l'Horticulture, Rabat, 466
Mississippi Agricultural Experiment Station, 481, 494e, 3425
Missionnier, J., 2961
Mitchell, J. H., 3204
Mitchell, J. W., 513, 2233, 2249
Mitchell, P., 3246
Mitchell, R. S., 2841
Mitchell, W., 197, 2660h
Mitchener, A. V., 2738, 2962
Mizen, H., 1663
Moberly, G. S., 3295
Moczarski, S. Z., 1543
Modlibowska, I., 2479, 2483
Modor, V., 1802
Moeller, S., 2514
Moericke, V., 2548
Moewus, F., 18, 3096
Mohrenweiser, D., 2328
Moitrel, P., 2114
Molenaar, A., 1353
Molin, K., 1130d
Molina, B. L., 959x
Molina, J. S., 959p
Molinier, R., 2487
Molotkovskii, G. H., 17, 563
Money, R. W., 2105
Monin, A., 583
Monot, G., 2884, 2886, 2900, 2931
Monselise, S. P., 3127
Montagnac, R., 3234
Montagne, J. T. W., 857
Montanari, V., 2311
de Montgrémier, H. A., 907
Montserin, B. G., 3208
Monzini, A., 3381
Mooney, W. C., 933
Moore, D. H., 2768
Moore, E. J., 2216
Moore, E. L., 930
Moore, F. J., 1813
Moore, J. D., 685
Moore, J. E., 842
Moore, J. F., 2847
Moore, J. G., 685

INDEX OF NAMES

- Moore, M. H., 1469, 1470, 2519, 2520, 2559
 Moore, P. W., 2702
 Moore, R. J., 374g
 Moore, R. M., 1569
 Moore, W. C., 645, 977, 987f, 1422, 1813
 Moore, W. D., 816
 Moosad, C. R., 3362
 Moraes, A. de M., 2925
 Morden Dominion Experimental Station, 2163
 Moreira Salles, J., 1764
 Morel, G., 1821
 Moretti, A., 2334, 2376
 Morettini, A., 959q, 1410, 2315, 2363
 Morgan, D. T., Jr., 1650, 3053z
 Morgan, N. G., 2624, 2625
 Morgan, W. L., 937
 Mori, H., 851
 Morofsky, W. F., 1761, 1765
 Morrell, K. E., 281
 Morris, D. S., 171, 739
 Morris, J. S., 2772
 Morris, J. W., 2994
 Morris, R. C., 2013
 Morrison, H. E., 2807
 Morrow, E. B., 1419d, 1419e, 2191
 Morstatt, H., 776f, 1566m
 Mort, C. H., 1312
 Mossop, M. C., 730
 Mott, W. P., Jr., 981
 Moulton, J. E., 1583
 Mueller, R. T., 3126
 Muesebeck, C. F. W., 2538
 van den Muijzenberg, E. W. B., 43, 107, 628
 Muir, R. M., 2238
 Muirhead, I., 1669
 Mukerji, S., 409
 Mukherjee, S. K., 2023, 2024, 2025, 2026, 3237
 Mukula, J., 3377
 Mulder, D., 30, 121, 122, 146, 508, 705, 706, 1425
 Mulder, E. G., 903, 2263
 Müller, E., 2481
 Müller, F. P., 724, 742, 2595, 2746, 3054a
 Müller, H. J., 2958
 Müller, K. O., 2938, 2941
 Müller-Fembeck, J., 987g
 Mullison, E. G., 2084
 Mullison, W. R., 790, 2084
 Mumford, D. C., 607, 613, 625, 644b, 810, 959f, 959g, 959h
 Muncie, J. H., 1761, 1765
 Mundkur, B. B., 2138
 Munger, F., 1045b
 Munjal, R. L., 3319
 Munn, M. T., 2287, 2288
 Munro, J. A., 3092
 Münster, J., 892, 2910, 2911
 Murakishi, H., 1716
 Murneek, A. E., 2378
 Murphy, M. M., 535c, 1404
 Mursell, P., 600
 Murti, K. S., 3362
 Mushroom Growers' Association, 2980
 Mushroom Research Association Ltd., Yaxley, 482, 2164
 Muskett, A. E., 2468
 Mustafa, A. M., 552
 Mutz, H., 2561
 Muzik, T. J., 1907
 Muzyčkin, E. T., 2722
 Myburgh, A. C., 1513
 Mygind-Gad, H., 2533
 Myhre, A. S., 1379
 Naaldwijk Research Station for Fruit and Vegetable Culture Under Glass, 2165
 Naaldwijk, South Holland Glass District Experimental Garden, 2165
 Nadel-Schiffmann, M., 3150
 Naik, K. C., 800, 1073, 1080
 Nair, U. K., 2007
 Najjar, H., 2444, 2527, 2596, 2718
 N.A.K.B., *see* Nederlandse Algemene Keuringsdienst voor Boomkweekrijgewassen
 Nance, N. W., 646
 Nandi, H. K., 1006
 Nank, E. E., 986
 Narain, R., 1042
 Narasimhan, B., 1035
 Narasimhaswamy, R. L., 3363p
 Narayana, G. V., 1063
 Nash-Wortham, J. R. H., 1710
 Natarajan, S., 2085i
 National Institute of Agricultural Botany, Cambridge, 2714, 3426
 National Institute of Agricultural Engineering, Ashham Bryan and Silsoe, 2177, 2906, 2907, 2908
 National Research Council of Canada, 494f
 National Shade Tree Conference, U.S.A., 2166
 Natrass, R. M., 1717
 Naude, T. J., 1197
 Naundorf, G., 400, 2247, 3213, 3214, 3226
 Navlet, A., 242
 Nayar, T. G., 1148
 Nazareth, B., 839
 Neal, O. R., 2726
 Nebraska Agricultural Experiment Station, 483, 3427
 de Necker, A., 2869
 Nederlandse Algemene Keuringsdienst voor Boomkweekrijgewassen (N.A.K.B.), 556, 2410
 Nederlandse Fruittelers Organisatie, 484
 de Neef, J. C., 3264
 Neely, W. B., 2240, 2241
 Neff, M. S., 1959
 Nègre, E., 2442
 Negrulj, A. M., 633
 Nel, E. A., 866
 Nel, R. I., 1198
 Nelson, R., 951, 2796
 Nesterenko, G., 990, 1008
 Nesterova, E. I., 831
 Nettleinghame, F., 983
 Neubauer, S., 2954
 Newcomer, E. J., 160, 718, 1508, 1519, 1566n
 Newman, J. V., 1882
 Newsham, J. C., 3403
 Newton, H. C. F., 331
 Newton, J. H., 172
 New Zealand Division of Horticulture, 485
 New Zealand D.S.I.R., 486
 Nicholas, D. J. D., 29, 2472
 Nichols, L. P., 1607
 Nicol, J., 1996
 Nicolea, H. G., 1158
 Nickels, C. B., 178, 2544
 Nicklová-Navrátlová, H., 3057
 Nieuwstraten, J. P., 774
 Nigam, R. G. S., 1800
 Nigeria Agricultural Department, 487, 1185
 Nigrelli, R. F., 1227
 Nikišin, K. G., 673
 Nilsson, A., 1811
 Nilsson, E., 1689
 Nilsson, F., 343s
 Nilsson, H., 2229
 Nilsson, R., 1737
 Nilsson-Leissner, G., 1271
 Nishi, S., 848
 Nitsch, J. P., 503, 1214, 1385, 2414
 Nixon, P. P., 225
 Nixon, R. W., 3169
 Nolan, K., 760
 Nord, F. F., 198g
 Norem, W. L., 2677
 Norges Standardiserings-Forbund, 2299
 Norman, A. G., 2662
 Norris, D. O., 1754

INDEX OF NAMES

- Norris, W. E., Jr., 343c
 Norske Hageselskap, 2316
 North, C. P., 1947
 North Carolina Agricultural Experiment Station, 917, 2394, 3428
 North Carolina Agricultural Extension Service, 3448e
 North Central Weed Conference [U.S.A.], 777
 Northcote, K. H., 2284
 Northern Ireland Agricultural Research Institute, Hillsborough, 494g
 Northern Rhodesia Department of Agriculture, 494h
 Nosti, J., 3054b
 Nott, J., 327
 Novák, J. B., 2511, 2798
 Novogrudskaja, D. M., 139
 Novopolskaja, E. V., 2590
 N.S.W. Department of Agriculture, Biological Branch, 258
 N.S.W. Department of Agriculture, Division of Plant Industry, 307
 N.S.W. Department of Agriculture, Entomological Branch, 154, 252, 361, 1609, 1610, 1933
 N.S.W. Department of Agriculture, Trifoliata Improvement Committee, 379
 Nutman, F. J., 2000
 Nyasaland Protectorate Department of Agriculture, 2096, 3429
 Nyhlén, Å., 2379
 Nylund, R. E., 1808u
 de Nys, P. F., 651
 Oates, W. J., 2680
 O'Brien, M., 934
 O'Brien, M. J., 1612
 O'Conner, B. A., 401, 1975, 3205
 Odland, M. L., 343t
 Odland, T. E., 2905
 van Oeveren, J. A., 88
 Offner, J., 60
 Offord, H. R., 203
 Ogden, W. B., 325, 343k, 343 l
 Ogilvie, L., 815
 Ogur, M., 2303a
 Øihlers, H., 98
 Oklahoma Agricultural Experiment Station, 2281, 3448f
 Oldaker, C. E. W., 2879
 Oldén, E. J., 2339, 2480
 Oldham, C. C., 2415
 Oldham, C. H., 2139
 de Oliveira, A. J., 2303q
 Ollagnier, M., 2029, 2030
 Olmo, H. P., 100a
 Olney, V. W., 717
 Olson, C. J., 351
 Olson, G., 1853
 O'Mara, F. D., 3293
 Omer-Cooper, J., 3160
 O'Neill, D. K., 406
 O'Neill, W. J., 758, 759, 1520
 Ontario Department of Agriculture (Vineland), 3430
 Oostenbrink, M., 2946
 Oppenheimer, H. R., 2, 2854, 3106, 3112
 Orchard, H. E., 1567
 Oregon Agricultural Experiment Station, 3431
 Orlov, F. K., 1369i
 Orlova, T. G., 1401
 O'Rourke, E. N., Jr., 1959
 O'Rourke, F. L., 1269, 1856, 1862, 1863
 Orr, H. P., 374i
 van Orshaegen, A., 624
 Ortega, R., 2940
 Orton, C. R., 662
 Orve, K. H., 241g
 Osborne, D. J., 1328
 Osburn, M. R., 1028, 1090, 3157
 Osipov, V. S., 245
 Osmond, D. A., 536
 Osnickaja, E. A., 805
 Osterwalder, A., 83
 Östlind, N., 92, 3371
 Ostrouhova, N. V., 1325
 Ostrovskaja, L. K., 957
 Osvald, C. V., 2987, 2988
 Ouboter, M. P. de B., 374h
 Ovčinnikov, I. F., 2397
 Overley, F. L., 671, 1321
 Overseas Food Corporation, 488
 Overstreet, R., 2303t
 Owen, G., 3256
 Owen, H., 1996
 Owen, J. H., 1667
 Owens, H. B., 3054c
 Ownbey, M., 2820, 2821
 Ozerov, G. V., 558, 2327
 Ozol, A. M., 131, 643
 Padfield, C. A. S., 597
 Padhye, Y. A., 3318
 Pagán, C., 1562
 Page, A. B. P., 756, 2657
 Páhlman, A., 2377
 Paine, J., 328, 3053t
 Painter, A. C., 2390
 Painter, J. H., 3186
 Pal, B. P., 1962
 Pal, N. L., 324
 Palma, M., 3209
 Palmer, A. W., 3001
 Palmer, R. C., 566
 Palti, J., 2513, 2514, 2747, 3141
 Panck, —, 2296
 Pandalai, K. M., 3224
 Pandya, K. C., 1800
 Panfilova, T. S., 2517
 Panov, M. A., 820
 Pansard, J., 2083
 de Paolis, D., 601a
 Papaioannou, P., 1284, 1311
 Paredes, L. A., 1986, 1987
 Park, B., 3405
 Parker, E. R., 1013, 3133
 Parker, K. G., 2505
 Parker, L. B., 2660w
 Parker, M. W., 1270, 2218, 2219
 Parks, T. H., 198c
 Parmele, H. B., 2121i
 Paškarij, S. I., 563
 Pasquier, R., 2810
 Passecker, F., 82
 Patel, M. K., 3318
 Paterson, H. C., 3340
 Pattissier, J., 894
 Patrone, I. M., 2518
 Patt, Y., 3122
 Pattabhiraman, T. V., 2012
 Patterson, R. E., 2681
 Pearce, O. W. M., 3290
 Pearce, S. C., 80, 2187, 2188
 Pearson, C. E., 1208
 Pearson, G. A., 2231
 Pearson, H. E., 345, 1015
 le Pechon, J., 2902
 (Pedersen, K.), 2153
 Peiris, J. W. L., 1845
 ter Pelkwijk, A. J., 703
 le Pelley, R. H., 1566b
 Pemberton, C. E., 3363q
 Pembroke, A. E., 1130b
 Penman, H. L., 1222
 Penningsfeld, F., 506, 1604
 Pennsylvania Agricultural Experiment Station, 1186, 3432
 Pénczes, A., 2320
 Pepper, B. B., 914, 2736
 Pepper, J. O., 1814, 2737
 de Peralta, F., 941, 1776
 Percival, E. G. V., 3103g
 Pereira, H. C., 3228, 3229
 Perrot, H., 2373
 Perry, B. A., 279, 1666
 Persons, T. D., 2500
 Perucci, E., 3000, 3003
 Peters, B. G., 2534
 Petersen, D., 764, 2613
 Peterson, H. B., 3408
 Petrahilev, I. M., 1279, 2489
 Pettey, F. W., 1577
 Pettinari, C., 2933
 Peyer, E., 119c, 638, 769, 1449
 Peynaud, E., 1391

- Pfahl, P. B., 374i
 Pfälzer, A., 417, 433
 Pfannenstiel, A., 67
 Pfannenstiel, D., 67
 Philcox, H. J., 2265
 Phillips, A. M., 179
 Phillips, C. D., 298
 Phillips, R. P., 238, 1588
 Phillis, E., 3216
 Philp, G. L., 569
 Philp, J., 798
 Philpott, M. W., 3264
 Picco, D., 1493, 2601
 Pichler, F., 2471
 Pickering, V. L., 437
 Pienaar, A. J., 1572
 Pieris, W. I., 435d
 Piguët, P., 192
 van der Pijl, L., 2611
 Pijls, F. W. G., 42
 Pillsbury, A. F., 1263
 Pimenides, A. C., 1394
 Pimentel, A. A. L., 1566o
 Pinto, J. A. G., 445
 Pinto da Fonseca, J., 1070
 Pinto Salvatierra, R., 3356
 Pirovano, A., 113, 2308
 Pitcher, R. S., 1566p, 2602
 Plakida, E. K., 1407
 Plank, H. K., 2656, 3349
 Plant, W., 1605, 1637, 1638
 Plešekii, P. F., 564
 Plummer, C. C., 1932, 3155
 Podoljskaja, O. I., 23
 Podrazanskaja, H. A., 16
 Podufalyi, T. I., 2467
 Poli, G., 27
 Poljakov, I. M., 3004
 Pollard, A., 457d, 457e, 2398, 3390h
 Pollard, A. G., 499, 2303d
 Pollard, L. H., 1273
 Pontailier, S., 2901
 Pontis, R. E., 2789
 Poole, C. M., 889
 Popenoe, W., 1884, 1886
 Popovskaja, E. M., 3383
 Porte, W. S., 1687, 2852
 Porter, H. A., 2661b
 Porter, J. W., 2198
 Porter, R. H., 3347
 Portjanko, V. F., 636
 Portsmouth, G. B., 2070, 3342,
 Poruckii, G. V., 899
 Posnette, A. F., 1990, 1992
 Post, J. J., 803
 Post, K., 3073
 Post, R. L., 3092
 Potato Production Improve-
 ment Committee, Alberta
 1734
 Potter, A. L., 1153a
 Potter, G. F., 1960, 3181
 Potter, J. M. S., 545
 Potter, N. A., 457a, 2359
 Potter, T. E. K., 427, 2062
 Poulos, P. L., 696, 698, 699
 Poutiers, R., 166
 Pouwer, A., 1429
 Powers, L., 3054d
 (Pradain, J.), *see* Pansard, J.
 Pradhan, S., 1566q
 Prasad, S. N., 2053
 Prasada, R., 1804
 Pratt, C., 1879i
 Pratt, R., 437
 Pratt, R. M., 2622
 du Pree, W. E., 2121v
 du Pree, D., 3174
 Prentice, I. W., 686, 829, 2493
 Prest, R. L., 3107
 Preston, A. P., 2186, 2391f
 Preston, N. C., 329
 Price, W. C., 3019
 Přihoda, A., 2531
 di Prima, S., 2661c
 Primost, E., 1711, 2752
 Prince, A. L., 806
 Pritchard, A. E., 347, 1676, 1816
 Pročeško, E. P., 979
 Procenko, A. E., 3123
 Prockter, N. J., 3406
 Procter, C., 2300
 "De Proeftuin" de Boskoop,
 2147
 Prokofjev, C. P., 128
 Propáczy, A., 2244
 Protasova, N., 846
 Protčenko, P. K., 2422
 Pruthi, H. S., 3159
 Pucher, G. W., 48j
 Puckett, R. F., 1807
 Puffeles, M., 54
 Pugsley, L. I., 457c
 Purewal, S. S., 1599
 Pussard, R., 1504
 Putman, E. W., 2196
 Putman, W. L., 2582
 Py, C., 1968d, 2034
 Pyrethrum Agricultural
 Research Advisory Com-
 mittee, 776g
 Pyrethrum Board of Kenya,
 2168
 Quarrell, C. P., 467
 Queensland Acclimatisation
 Society, 1188
 Queensland Bureau of Sugar
 Experiment Stations, 1171
 Queensland Department of
 Agriculture and Stock,
 1187
 Quidet, P., 2901
 van Raalte, A., 372
 Rabat, Service de la Défense
 des Végétaux, 1925
 Rabideau, G. S., 1694, 1695,
 1696, 2216
 Račkov, V. M., 147
 Radžabli, A. D., 56
 Raffel, S. (Editor), 480
 Rajháthy, T., 3054e
 Raleigh, S. M., 2681
 Ramakrishnan, K., 2076
 Ramakrishnan, T. S., 2076
 Raman, K. R., 535h
 Ramdas, L. A., 3200
 Ramirez-Silva, F. J., 3247
 Ramos, F. V., 2048
 Ramsfjell, T., 2528
 Randhawa, G. S., 68, 69,
 518
 Randhawa, M. S., 985, 1081
 Rands, R. D., 3363u
 Rangaswami, C., 2423
 Ranson, F., 468
 Rao, B. L., 2121d
 Rao, D. V. S., 1566z
 Rao, K. H., 775
 Rao, M. M., 1080
 Rao, M. V. V., 2669
 Rao, R. R., 2085i
 Rao, U. N., 541, 1147
 Rappleye, R. D., 1650, 3053z
 Raski, D. J., 1518
 Rasmussen, M. P., 1142
 v. Rathlef, H., 1866
 Ratkovich, M., 1722
 Raucourt, M., 911
 Raudnitz, H., 1668
 Rautavaara, T., 2303r
 Rautenberg, E., 1621
 Ravindranath, V., 1566z
 Rawlins, W. A., 320
 Rayner, R. W., 3232
 Rchiladze, I. T., 632
 Rea, H. E., 531
 Read, D. R., 1753
 Read, F. M., 101, 181, 994
 Reaño, M. C., 1976
 Reath, A. N., 1656
 Rebour, H., 100e, 1430, 1918,
 2309, 3114
 Reckendorfer, P., 1557
 Redemann, C. T., 2246
 Redman, R. E., 601b
 Reece, P. C., 2027
 Reed, C. A., 639
 Reed, I. F., 2293
 Reed, J. P., 914, 2751
 Reese, G., 2253
 Refatti, E., 681
 Regnier, R., 2136
 Régnier, R., 166
 Reich, H., 1535, 2606
 Reichel, M., 1336
 Reichert, I., 2514
 Reid, A. L., 2391g
 Reid, W. A., 927
 Reid, W. J., Jr., 834

- Reinders-Gouwentak, C. A., 535i, 2859, 2867
 Reinking, O. A., 1072, 3054f, 3206, 3236
 Reitsma, J., 430, 431, 1126
 Reitz, H. J., 1935
 Renaud, M., 1343
 Renouf, L. R., 50, 715
 Research Branch Central Secretariat, Caribbean Commission, 472
 Reuckiĭ, F. V., 2904
 Reuther, W., 3139
 Reynard, —, 2945
 Reyneke, J., 435e
 Rhoades, H. F., 890
 Rhodes, A., 1234, 1738
 Rice, E. L., 515, 1233
 Rich, A. E., 315
 Richards, A. V., 1908
 Richardson, A. M., 989
 Richardson, F. R., 2292
 Richardson, H. H., 1827
 le Riche, F. J. H., 390
 Richharia, R. H., 801, 840
 Rick, C. M., 1692, 1808v, 2853
 Rickli, E., 1402
 Riera, A., 2054
 Rietsema, I., 1232
 Rigg, T., 1202
 Rigney, J. A., 1555, 2191
 Riker, A. J., 48k
 Riley, E. A., 932
 Riley, H. P., 987h
 Riley, J. P., 3363r
 Riner, M. E., 3053 i
 Ringoet, A., 2860
 Rings, R. W., 1566r, 2552
 Rinthakul, C., 2659
 Ripper, W. E., 755, 1545, 1550, 2633
 Risbec, J., 1997
 Ritcher, P. O., 1498
 Rivnay, E., 2600
 Robb, O. J., 781, 2689
 Robb, R. I., 3219
 Roberti, D., 744, 2598
 Roberts, E. A. H., 2121n
 Roberts, H. A., 787
 Roberts, H. D., 1386
 Roberts, J., 601c
 Roberts, J. D., 312
 Roberts, R. H., 19, 371
 Robertson, R. N., 2092
 Robinson, B., 1787
 Robinson, E., 796c, 2237
 Robinson, J., 1692
 Robiony, D., 2491
 Roby, F., 1413
 Rodin, R., 1047
 Rodrian, —, 2641
 Rodrigo, P. A., 1048
 Rodrigues, A., 1980
 Rodwell, C. N., 1801
 Roehrich, R. (M. et Mme.), 2584
 Roels, O., 412
 Rogers, W. S., 108, 618, 620, 2406, 2413, 2483
 Rohrbaugh, L. M., 515
 Rohrbaugh, P. W., 3113, 3143
 Roland, G., 198i, 313, 906, 2917, 3103k
 Rolfe, W. A., 544
 Rolik, R. P., 961
 Romanevič, B. V., 745
 Rombach, R., 649
 (Ronaldson, F. H.), 2623
 Ronchi, V., 2421 —
 Roodenburg, J. W. M., 7, 8
 Roop, Q. W., 440
 de Ropp, R. S., 142, 1228, 1230
 Rork, C. L., 968
 Rose, D. H., 438, 2661d, 2880
 Rose, R. C., 341
 Rosella, E., 2550
 Rosene, H. F., 524
 Rosenstiel, R. G., 1816
 Ross, A. A., 999, 3116
 Ross, A. F., 2919
 Ross, W. A., 2543
 Rost, C. O., 900
 (Rothamsted), *see* Lawes Agricultural Trust
 Rotor, G., Jr., 1825, 1826
 Rotta, H., 10
 Rouatt, J. W., 1758, 2921
 Rouillard, G., 3284
 Rounce, N. V., 1166
 Rounds, M. B., 1891, 3108
 Rouse, Bin H. M. A., 3262
 le Roux, M. S., 115
 Rowaan, P. A., 528
 Rowell, J. B., 1540
 Rowell, J. D., 3193g
 Roy, A. C., 2085j
 Roy, P. K., 1085
 Roy, R. S., 801, 840, 3171
 Roy, S. C., 2121o
 Royal Horticultural Society, 3087
 (Royal Society, London), 2185
 Ruala, T. S., 837
 Rubber Research Institute of Malaya, 3257, 3258
 Rubin, B. A., 2192, 3152
 Ruef, J. U., 1282
 Ruggieri, G., 2345
 Rungs, C., 726, 1815
 Ruprecht, R. W., 1253
 Rustenburg Central Tobacco Research Station, 2996
 Rustia, A., 1780, 1782
 Ryan, F. E., 198j
 Rygg, G. L., 2121p
 Ryker, T. C., 228, 241a, 241f
 Ryžkov, V. L., 3017
 Rževkin, A. A., 1948, 2330
 S., E. H. G., 3033, 3199
 S., R., 2079
 S., W. F., 1832
 Sachs, L., 4
 Sag, G., 3044
 Saïd, H., 2197
 Salaman, R. N., 959r
 Salgado, M. L. M., 2004
 Salmon, E. S., 330, 947
 Salter, R. M., 3440
 Salynskiĭ, F. S., 1305
 Sambamurty, K., 1084
 Samisch, Z., 1009
 Samson, R. W., 876
 Samygin, G. A., 3075
 (Sanders, W. T.), 3404
 Sandwith, N. Y., 3177
 Sanford, G. B., 317
 Sanfourche, G., 1329
 Sankaram, A., 1100
 Sankar-Subramony, H., 3224
 Sankewitsch, E., 3407
 Sannié, C., 1243
 Sannikov, V. C., 74
 Sannikova, H. M., 3039
 Sarawak Department of Agriculture, 2169
 Sarfatti, G., 200, 1575
 Šašin, A. I., 1465
 Saskatchewan Swift Current Dominion Experimental Station, 1189
 Sass, J. E., 2934
 Sayre, C. B., 1636
 Scaramuzzi, G., 326, 925, 1791
 Scarchuk, J., 2806
 Scarrone, F., 3217
 Ščeglova, O. A., 2200
 Ščepotjev, F. L., 1414
 Schaal, L. A., 959o, 959s
 Schaefer, L., 726
 Schaer, E., 1292
 Schanderl, H., 1251
 Scharrer, K., 1274s
 Scheerlinck, H., 13
 Scheibe, K., 2955
 Scheil, W., 1366
 Schery, R. W., 426
 Schey, —, 539
 Schilder, F. A., 1393
 Schilling, W. E., 3193e
 Schleusener, P. E., 2731
 Schofield, M., 3034
 Schmid, E., 1274t
 Schmidt, G., 720
 Schmidt, L., 757
 Schmidt, T., 1566s
 Schneider, F., 170, 732
 Schneider, H., 1023, 1024
 Schoene, D. L., 187
 Schomer, H. A., 1808x

INDEX OF NAMES

- Schönberg, A., 1808w
 Schönbrunner, J., 1570
 van Schoonneveldt, J. C., 419, 1094
 van Schoor, G. H., 2259
 Schopp, R., 1678
 Schøyen, T. H., 2140
 Schrader, A. L., 2121t
 Schrank, A. R., 2211
 Schreuder, J. C., 1674
 van Schreven, D. A., 891
 Schrödter, H., 2763
 Schroeder, C. A., 1947, 1964, 3104
 Schroeder, R. A., 859
 Schroeder, W. T., 266
 Schropp, W., 2262, 2272
 Schrupf, W. E., 310
 Schulz, F., 2333
 Schuphan, W., 246
 Schütz, F., 617
 Schwanitz, F., 35, 2717
 Schwartz, E., 1769, 2963
 Schwartze, C. D., 1379
 Schweiz. Zentrale f. Obstbau, Oeschberg, 540
 Schweizer, J., 421
 Scotland Department of Agriculture, 2881, 3053j
 Scott, D. B., Jr., 1857
 Scott, D. H., 608, 1376, 1478
 Scott, F. M., 2226
 Scott, L. E., 2098, 2121q
 Scottish Society for Research in Plant Breeding, 489
 Scriven, W. A., 889
 Secretary of Agriculture, U.S.A., 3436
 Seeley, J. G., 366, 978, 1849, 1850
 Seeley, R. C., 2243
 Seggay, L., 1839
 Sehgal, B. R., 1111
 Seibert, R. J., 3252, 3253
 Seifriz, W., 2080
 Seljaninov, G. T., 2801
 Sell, H. M., 394, 2246
 Seltzer, R. E., 3193g
 Sen, A. B., 2660e
 Sen, B., 1950
 Sen, P. K., 527, 653, 1037, 1078, 1079, 1085, 1086
 Senaratna, J. E., 2085k
 Sandler, O., 2951
 Septroux, J., 36, 1213
 Seremetevskii, P., 2730
 Sergeeva, K. A., 57
 Serr, E. F., 1485
 Service Botanique et Agronomique, Tunisie, 493, 494j
 Service de la Défense des Végétaux, Rabat, 1925
 Sethi, W. R., 1082
 Sethofer, V., 2922, 2923, 2930
 van Severen, M. L., 2014
 Severin, H. H. P., 135, 136, 137, 1461
 Sexton, W. A., 48c
 Seybold, A., 2199, 2268
 Seychelles Department of Agriculture, 490
 Shah, S. M. I., 1798
 Shanks, J. B., 368, 1868, 1869, 1871
 Sharma, S. L., 1096, 1097
 Shaw, A. C., 3390i
 Shaw, F. R., 1560
 Shaw, H., 342, 1491
 Shaw, J. G., 1932, 3154
 Shaw, W. C., 1566t
 Shaw, W. M., 1787
 Sheffield, F. M. L., 2000
 Shepard, P. H., 2391h
 Sherman, C. B., 3045
 Sherrard, C. D., 3271
 Sherred, P. R., 561
 Shetty, K. M., 1148
 (Shewell-Cooper, W. E.), 3403
 Shiffriss, O., 268
 Shill, O. W., 2351
 Shires, L. B., 959j
 Shive, J. W., 296
 Short, G. R. A., 954, 955
 Showalter, R. K., 1808x
 Shread, J. C., 1497
 Shrivastava, S., 1098
 Siaens, F., 708
 Sideris, C. P., 3248
 Siegel, S. M., 2251
 Sievers, A. F., 338, 776h
 de Silva, C. A., 414, 420
 Simmonds, F. J., 1594c
 Simmonds, J. H., 407
 Simmons, J. E., 690
 Simon, G., 580
 Simonneau, P., 1264, 1902, 1903, 1904
 Simpson, D. E., 1542
 Sims, G. T., 247
 Sina, A., 1808w
 Sinclair, K. B., 3363s
 Sinclair, W. B., 395a, 2121r, 3144
 Singh, D., 3054g
 Singh, H. B., 1962
 Singh, M. P., 1001, 2261
 Singh, R. N., 2805
 Singh, S., 2347
 Singh, S. D., 1104
 Singh, S. N., 2863, 3117
 Sip, V., 2912
 Sipkes, C., 127
 Sironval, C., 627, 629
 Sisam, J. W. B., 2143
 Sites, J. W., 1935
 Sitton, B. G., 1958
 Skepper, A. H., 95, 590
 Skljär, N. I., 1444
 Školjnik, M. Ja., 33
 Slabý, V., 2954
 Slack, E. B., 452
 Slatter, E. M., 2286
 van Slijcken, A., 2878
 van Slogteren, E., 374h
 Small, J., 1808y
 Small, T., 2944
 Smeets, L., 2859
 Smirnova, O. N., 164
 Smirnova, V. A., 3017
 Smit, B., 3193h
 Smith, A. J. M., 1137
 Smith, B. W., 103
 Smith, C. F., 1555, 2635
 Smith, C. M., 2107
 Smith, C. T., 1380
 Smith, E., 1136, 1333
 Smith, E. J., 504
 Smith, F. F., 980, 2753
 Smith, G. E., 225
 Smith, H. C., 827
 Smith, H. F., 3255
 Smith, H. H., 1777
 Smith, H. S., 1968e, 3193i
 Smith, J. H., 1735
 Smith, L. M., 2558
 Smith, O., 901, 1736, 2691, 2898
 Smith, P. F., 3139
 Smith, P. G., 861
 Smith, R. B., 2303s
 Smith, R. F., 2638
 Smith, R. J., 1018
 Smith, W. H., 572
 Smock, R. M., 1361, 3368
 Smolák, J., 679, 700, 2507, 2667, 2793
 Snyder, E., 1399
 Snyder, J. C., 2408
 Snyder, W. C., 2735, 2797
 Snyder, W. E., 1875
 Söding, H., 1652
 Soenen, A., 167, 1423
 van Soest, W., 73
 Soetardi, R. G., 424, 1121
 Soil Science Society of Florida, 942
 Solodovnikov, V. Ja., 1912
 Solomon, S., 2669
 Solovjeva, M. A., 2326
 Somers, G. F., 1724
 Somos, A., 2757
 Soós, I., 1566u
 Sørensen, H., 2837
 Souček, J., 72
 de Sousa, A. T., 1980
 South Africa, *see* Union of South Africa
 South Holland Glass District Experimental Garden, Naaldwijk, 2165
 Southwick, L., 1167
 Souty, J., 1313, 1315, 3394

INDEX OF NAMES

- Spangelo, L. P., 2703
 Spear, I., 280
 Specht, A. W., 2728, 3139
 Spencer, H., 179, 3157
 Speroni, H. A., 1026
 Speyer, W., 261, 1548, 1566v,
 1624
 Spinks, G. T., 2313
 Spirina, V. V., 610, 1289
 Spoelstra, P. A., 45
 Sponjko, G. A., 65
 Spragg, W. T., 3053c
 Sprague, R., 702
 Spreng, H., 465, 1369d
 Sprenger, A. M., 89
 Spring, F. S., 3363t
 Squires, P., 504
 Sreenivasan, A., 1631
 Srinivasan, A. R., 784
 Stadhouders, P. J., 570
 Stadlmann, A., 1324
 Staehelin, M., 752, 1332, 2353
 Stafford, E. M., 1525
 Stahel, [G. J.], 1054
 Stahel, M., 694
 (Stahl, C.), 3053g
 Stahmann, M. A., 1667
 Stairs, H. F., 778
 Stalé, J., 2459
 Stamper, E. R., 228, 239, 241c
 Stanberry, C. O., 601d
 Stanjko, I. I., 979
 Stanković, D. M., 1359
 Stanton, D. J., 1702
 Staples, R., 320
 Stapp, C., 1759, 1808z, 2918
 Stark, J., 3363t
 Starnes, O., 2736
 Starý, B., 2795, 3069
 Statens Forsøgsvirksomhed i
 Plantekultur, 2661e, 2664,
 3367
 (Statens Forsøgsvirksomhed i
 Plantekultur), 2368, 2837
 Statens Plantepatologiske For-
 søg, 2453
 Stearn, W. T., 1851, 3409
 Steele, W. G., 2964
 Steenbjerg, F., 1424
 Steer, W., 1491
 Steib, R. J., 3321
 Steil, W. N., 3059
 Steinberg, R. A., 1785, 3011,
 3012
 Steineck, O., 1729, 1730
 Steiner, G., 1566w
 Steinhäuser, F., 263
 Steinig, 105
 Steiniger, F., 2661f
 v. d. Stelt, L., 1369j
 Stenström, M., 2121s
 Stephens, S. E., 410
 Sterges, A. J., 1274u
 Steudel, W., 2743
 Stevens, F. D., 2050
 Stevens, R. B., 2456
 Stevenson, E. C., 3041
 Stevenson, F. J., 887, 959t
 Stevenson, G. C., 2045
 Steward, F. C., 2204
 Stewart, N., 2389
 Stewart, W. S., 1916, 2093,
 3130
 Steyer, M., 1823
 Stickley, R. M., 2318
 Stillings, E., 365
 Stirk, G. B., 2282
 Stitt, L. L., 1613
 Stock, F. G., 1699
 Stocker, O., 2217
 Stocking, C. R., 1159
 Stoddard, E. M., 712
 Stoddart, L. A., 201
 Stofberg, F. J., 3162
 Stoffels, E. H. J., 1563
 v. Stokar, —, 2234
 Stokes, I. E., 3280
 Stoll, K., 814, 1644, 2763,
 2832, 2833, 2835
 Stoloff, L., 339
 Stone, A. M., 457d, 2398,
 3390h
 Storer, T. I., 747
 Storrie, D. L., 604, 609
 Story, C. G., 1114
 Stout, P. R., 2303t
 Stover, R. H., 3020, 3054h
 Strachan, C. C., 1144
 Strasser, P. H. A., 3363j
 Street, H. E., 2857
 Streeter, F., 1842
 Strickland, A. H., 1996
 Strong, M. C., 1720
 Strong, R. G., 1489
 Struckmeyer, B. E., 48k, 371,
 1732
 Struijs, L. C., 355
 Stuart, N. W., 356, 357, 975,
 1852, 3081
 van Stuivenberg, J. H. M.,
 344, 1429
 Stumpf, P. K., 520, 521, 1274v
 Sturgis, M. B., 3286
 Stutz, R. E., 530
 St. Vincent Agricultural
 Department, 491
 Sudds, R. H., 1308
 Sugar Research Foundation,
 492
 Sugawara, T., 813
 Sugar Research Stations, *see*
 British West Indies and
 Mauritius
 Sugiyama, T., 848
 Suhačev, A. D., 3373
 Suire, J., 1524
 Sulakadze, T. S., 2245
 Summers, E. M., 3363u
 Sundararaj, D. D., 2085a, 3173
 Sunday, M. B., 1936
 Sušicki, L. A., 1541
 Sutcliffe, J. F., 1242
 Svoboda, J., 2798
 Swanback, T. R., 343a, 924,
 1779, 3008, 3010
 Swank, G. R., 2744
 Swanson, C. L. W., 2182, 2692
 Swaziland Department Native
 Land Settlement, 494i
 Swedish Association for Fruit
 Tree Breeding, Balsgård,
 2145
 Sweet, R. D., 1690, 2687
 Swezey, A. W., 392, 1956
 Swift Current Dominion Ex-
 perimental Station, Sas-
 katchewan, 1189
 Swingen, J. L., 374j
 Swingle, C. F., 1351
 Sylvén, E., 828, 3101
 Sylvester, E. S., 1756
 Symon, J. A., 1725
 Szirmai, J., 2788
 Tai, E. A., 997, 3118
 Takematsu, T., 640
 Talgeri, G. M., 1974
 Tallon, G., 2487
 Tamm, E., 1223
 Tamman, A. I., 2903
 Tanaka, T., 500
 Tanganyika Territory Depart-
 ment of Agriculture, 1190
 Tanganyika Territory, Coffee
 Research and Experiment
 Station, Lyamungu,
 Moshi, 3433
 Tarjan, A. C., 842
 Taschenberg, E. F., 318, 1505,
 1514, 2585, 2586
 Tatarincev, A. S., 1325
 Tate, H. D., 187
 Tauböck, K., 3054i
 Tavadze, P. G., 2433
 Taveira Fernandes, C., 151
 Tayal, J. N., 1800
 Taylor, A., 435f
 Taylor, C. F., 693
 Taylor, E. A., 1219, 2783
 Taylor, G. G., 767
 Taylor, H. J., 1249
 Taylor, J., 2187, 2189
 Tea Research Institute of
 Ceylon, 1191
 (Tea Research Institute of
 Ceylon), 2071
 Teague, C. P., 3146
 Tejada, J. de D., 3311
 Tempany, H. A., 3194
 Templeman, W. G., 1234, 1579
 Terman, G. L., 904
 Terra, G. J. A., 397, 1046

- Terrier, C., 982, 2512
Tertyčnaja, L. A., 2861
Tewfik, S., 520
Thagušev, N. A., 549
Thams, J. C., 2661g
Thaysen, A. C., 2610
Theau, A., 3066
Thellmann, W., 1709
Thiem, H., 1566x, 2661h
Thimann, K. V., 280, 1231, 1593, 2194, 2195
Thiolliere, J., 150
Thirumalachar, M. J., 1566z
Thistle, M. W., 1131
Thomas, C. A., 950, 958, 2979
Thomas, G. E., 2944
Thomas, H. R., 2759
Thomas, I., 1766
Thomas, K. M., 478, 784, 2015
Thomas, M. D., 2274
Thompson, A. C., 2724
Thompson, A. H., 2121t, 2463
Thompson, C. R., 469, 595
Thompson, F. C., 2984, 2985
Thompson, G. E., 688
Thompson, J. F., 2204
Thompson, K. L., 3053a
Thompson, P., 2113
Thompson, R., 47
Thompson, R. C., 275
(Thompson, W. R.), 2660j
Thornberry, H. H., 663
Thorne, D. W., 297, 823, 3408
Thorold, C. A., 1943
Thruston, M. N., 1234
Thung, T. H., 676
Thurlow, J., 48b
Ticquet, C. E., 505, 1260
Tidman, D. A., 722
Tièche, J., 2183
Tihovidova, V. K., 2609
Tilden, D. H., 2121u
Tilemans, E., 2663
Tilkin, N., 102
"The Times", 2170
Timofeeva-Saharova, H., 1454
Timonin, M. I., 926
Tincker, M. A. H., 498, 2400, 3086
Tipler, R. V., 408
Titaev, A. A., 2206
Tjallingii, F., 274
Tkachenko, B., 1453
Todd, A. R., 2121b, 3030
Todd, F. A., 930
Toenjes, W., 85, 96, 140
du Toit, R., 2682, 2686
Tolhurst, J., 2362
Tomar, B. S., 3117
Tombsi, L., 2222, 2223, 2855, 2973
Tompkins, C. M., 1817, 1830, 1840
Tompos, A., 1252
Tondeur, R., 3389
Topping, E., 1967
Torikata, H., 691
Torres, J. P., 3238
Torrey, J. G., 1593
Tóth, E., 2324
Toth, S. J., 806
Townes, H., 3021
Townsend, W. N., 1771
Traub, H. P., 2255
Treccani, C. P., 2436, 2437
Trelawney Tobacco Research Station, 2171
Tresadern, F. H., 197
Trifoliata Improvement Committee, Department of Agriculture, N.S.W., 379
Trinidad and Tobago Director of Agriculture, 1192
Trocme, S., 665, 2473, 2725
Troickaja, N. A., 3390a
Tromp, L. A., 1108
Trotter, A., 2450
Troiillon, L., 2745
Trout, S. A., 3380
Trouvelot, B., 166
Troyahn, W. J., 3363j
(Trullinger, R. W.), 3441
Tullis, E. C., 3190
Truog, E., 864
Truscott, J. H. L., 436
Tsao, T. H., 1691, 1828
Tsui, C., 32
Tsung-Tsao, *see* Tsao, T. H.
Tubbs, F. R., 2067
Tucuman Agricultural Experiment Station, 378
Tufts, W. P., 1280, 1464
Tukey, H. B., 68, 1307, 1360
Tuljzenkova, F. F., 272, 1688
Tullis, E. C., 241g
Tulloch, J. B., 918
Tunblad, B., 2568, 2661i
Tung, S. M., 2344
Tunisie, Service Botanique et Agronomique, 493, 494j
Turček, F. J., 2524
Turjanskii, G. F., 1406, 2441
Turk, L. M., 24, 1348
Turnbull, J., 1374
Turnbull, R. F., 3385
Turner, H. A., 602
Turner, J. F., 1135
Turner, J. S., 526
Turner, N., 913, 936, 939, 2965
Turner, W. F., 2500
Turpin, H. W., 1199
Turrell, F. M., 1923, 1924, 3136, 3161
Tveit, M., 659
Tyagi, R. S., 928
Tyrrell, V. D., 2997
Tysdal, H. M., 3048
Tyson, J., 2800
Udenfriend, S., 2303u
Uganda Department of Agriculture, 3434
Ulrich, R., 2089
U.N.E.S.C.O., 1168
Union of South Africa Department of Agriculture, 1193
(Union of South Africa Division of Agricultural Education and Research), 1199
(Union of South Africa Division of Botany and Plant Pathology), 1196
(Union of South Africa Division of Entomology), 1197
(Union of South Africa Division of Horticulture), 1194
United Planters' Association of Southern India, 3435
Upshall, W. H., 68, 69, 70, 2446
Uri, J., 885
U.S. Agricultural Research Administration, 3437
U.S. Bureau of Agricultural Economics, 1938
U.S. Department of Agriculture, 470, 1201d, 1376, 2121i, 2661j, 3441, 3442
U.S. Department of Agriculture, Forest Service, 1160
U.S. Department of Agriculture, Production and Marketing Administration, 1274w, 2303v
U.S. Secretary of Agriculture, 3436
Usman, S., 1068
Utech, N. M., 1790
Vaarama, A., 1378
Vaciljev, V. I., 94
Vacin, E. F., 1829
Vahl, E., 1290, 1319
Vail, G. E., 2100
Vallance, K. B., 241h
Vallance, L. G., 3282
Valle, T., 3381, 3382
Valleau, W. D., 1788
Vanderhasselt, P., 539, 2367
Vander Meulen, E., 1682
Vanderwaeren, R., 641
Vanderweyen, R., 412
Vansell, G. H., 78, 569, 1322
Vanselow, A. P., 2141
Vanstone, F. H., 2265
Vanwijngaerden, G., 1134

INDEX OF NAMES

- Vappula, N. A., 198k
 Varas, D., 1102
 Varner, J. E., 1274x
 Vasiljev, I. M., 1434
 Vasiljeva, Z. V., 2224
 Vasseur, R., 157
 Vasudeva, R. S., 871, 1742, 1743
 Vaughan, E. K., 134, 2762
 Vaughn, J. R., 969, 1587, 2803
 van Veen, A. G., 1049
 van der Veen, R., 535j
 Vegis, A., 522
 Veihmeyer, F. J., 591, 592, 1354, 2280, 2370, 2451
 Velbinger, H. H., 1554
 Veličko, L. V., 634
 Venkatanarayana, G., 1058
 Venkataraman, M. S., 2001
 Venkataraman, T. M., 776i
 Venkataramani, K. S., 841, 3203, 3260, 3337, 3346
 Venkataratnam, L., 1083
 Venkatasubban, C. S., 1062
 Vemming, F. D., 959u, 1901
 Ventre, E. K., 3314
 Ventura, E., 911
 Verbelen, V., 1283
 Verboom, W. C., 398
 Verbruggen, A., 1680
 Verderevskii, D. D., 1474, 2529
 Vermaat, J. G., 3259
 Verner, L., 547, 598
 Verona, O., 1786, 2672
 Viado, G. B., 3223
 Vicini, L., 2576, 2607
 Vickery, H. B., 354
 Victoria, Australia, Department of Agriculture, Biological Branch, 3093
 Vidal, J., 1566y
 Vidalon, C. G., 859
 Viehmeyer, G., 214, 226
 Vieitez, M. G., 959i, 3036
 Vielwerth, V., 2924, 2932
 Viennot-Bourgin, G., 148
 Viets, F. G., Jr., 1685
 Vilikova-Kandaurova, V. F., 642
 Villamil G., F., 3213, 3214
 de Vilmorin, R., 619
 Vincent, A. E., 86
 Vincent, C. L., 808
 Vincent, L. E., 1941
 Vineland Horticultural Experiment Station, 3430
 Viney, R., 1367
 Vinson, J., 1118
 Virot, R., 2655
 Vischer, E. B., 1668
 Vivero Nacional Rama Caida, 2317
 Vlamis, J., 2231
 Voelcker, O. J., 1983
 Vogel, W., 732
 Vojtovič, K. A., 2529
 Volcani, Z., 2787
 Volk, G. M., 247, 2700
 Völk, J., 2948
 Vollema, J. S., 417, 418, 425, 1093
 Volmer, W. E., 1464
 Volodarskii, N. I., 3009
 Volp, P., 3327
 Voronkevič, I. V., 1719
 Voskresenskaja, N. P., 276
 Voth, V., 109
 van de Vrie, M., 1522
 Vuittenez, A., 707, 1468
 Vyvyan, M. C., 1357
 W., P. L. D., 3097
 Waddell, C. W., 3296
 Wade, G. C., 1626
 Wade, P., 3390j
 Wädenswil Horticultural Research Station, 2172
 Wadleigh, C. H., 807, 1622
 Wagenknecht, A. C., 535k
 Wageningen Variety Lists, 3054j, 3054k
 Wager, V. A., 3149
 Wahlin, B., 2791
 Waibel, C. W., 3165
 Wain, R. L., 1274y, 2243, 2865, 2866
 Waite Agricultural Research Institute, 2173
 Walawalker, D. G., 2116
 Waldo, G. F., 2392
 Walker, E. H., 1047
 Walker, H. B., 1687, 2852
 Walker, J. C., 282, 283, 301, 873, 874, 959v, 1667, 3053p
 Walker, J. H., 2306
 Walker, T. W., 47
 Walker, W. F., 2391i
 Wallace, A., 3126
 Wallace, J. M., 377, 1023, 3145
 Walter, H., 2178b
 Walter, J. M., 1566i
 Walters, B., 1954
 Walthall, A. M. J., 524
 Walton, R. R., 2843
 Wander, I. W., 1016, 1335, 3135
 Wandrekar, S. D., 1631
 Wangermann, E., 3072
 Wann, F. B., 823
 van der Want, J. P. H., 257
 Ward, J. M., 495
 Wardlaw, C. W., 3244
 Ware, L. M., 248
 Waring, E. J., 1606, 1639
 Wark, D. C., 2831
 Warmke, H. E., 1952
 Warne, L. G. G., 250, 811, 826, 843, 1210, 2822
 Warren, F. L., 2121k
 Warren, G. F., 217, 219, 222, 223, 224, 241e, 1955
 Washauber, B., 1274b
 Wason, E. J., 189
 Wasscher, J., 39
 Watson, M. A., 251
 Watson, R. D., 1665
 Watt, J. H., 612, 2395, 2407
 Wattle Research Institute, 3443
 Weatherby, R. T., 1380
 Weaver, H. A., 2293
 Weaver, R. J., 2434
 Webb, L. J., 3028
 Webb, P. C. R., 2504
 Webb, R. E., 1957
 Weber, W. W., 333
 Webre, A. L., 3313
 Webster, C. C., 3185
 Weeks, T. E., 682
 Weigel, C. A., 1628
 Weil, L., 513
 Weimer, J. L., 692
 Weinard, F. F., 1870
 Weinberger, J. H., 1431
 Weintraub, R. L., 1226, 2236, 2662
 Weir, T. S., 1286
 Welch, F. J., 2277
 Wellensiek, S. J., 61, 821, 1659
 Weller, L. E., 2239
 Wellington, R., 2391j
 Wells, D. G., 282, 959v
 Wells, J. S., 984, 3091, 3095
 Wender, S. H., 2202, 2203, 3166
 Wene, G. P., 2740, 2742, 2876, 3156
 Went, F. W., 862, 1829, 2858
 Wentzler, J. E., 1349
 Wenzl, H., 1306, 1337, 1475, 2460, 2462, 2909
 Werner, H. O., 449
 West, A. P., 2081
 West, T. F., 471
 West African Cacao Research Institute, 2174
 West of Scotland Agricultural College, 1203, 2178c
 Westall, R. G., 2205
 Wester, H. V., 1585
 Wester, R. E., 1628
 (Western Province Fruit Research Station), 1198
 Weston, W. A. R. D., 2142
 van Westrhenen, P., Jr., 1369k
 de Wet, A. F., 2312
 Wetmore, R. H., 1821, 1879i
 Weyland, H., 972
 Whaley, W. G., 1691, 1694, 1695, 1696, 2216
 Whalley, T. G., 3287

INDEX OF NAMES

- Whatley, F. R., 523
 Wheatley, G. A., 1543
 Wheeler, E. H., 1556
 Wheeler, T. S., 2106, 2997
 Wheeting, L. C., 587
 Whiffen, W. H., 2382
 Whitaker, C. H., 1671
 Whitaker, T. W., 1658
 Whitcomb, W. H., 933
 White, D. G., 1274z, 1342, 1349, 2416
 White, D. L., 594
 White, F. A., 1888, 1889
 White, L., 2304
 Whitehead, G. B., 3160
 Whiteman, T. M., 438, 893
 Whitson, C., 3363v
 Whyte, R. O., 2143
 Wiant, J. S., 2454
 Wiehe, P. O., 3185
 Wiersum, L. K., 1092
 Wilcox, E. B., 281
 Wilcox, J., 2825, 2826
 Wilcox, J. C., 91, 1261
 Wilcox, L. V., 1254
 Wilcox, W. W., 343u
 Wilcoxon, F., 760
 Wild, H., 3029
 Wilhelm, S., 1718, 2735
 Wilkinson, E. H., 343v
 Williams, C. F., 103
 Williams, C. G., 1088
 Williams, D., 2660m
 Williams, D. E., 1241
 Williams, E. J., 2303w
 Williams, J. R., 2063
 Williams, R. O., 3218
 Williams, W. F., 343h
 Williams, W. O., 2434
 Williams, W. T., 959w, 1239
 Williamson, C. E., 1874
 Willison, R. S., 2496
 Wills, J. McG., 3197
 Wilske, C., 2250
 Wilson, A. R., 2927
 Wilson, D. J., 618, 2981
 Wilson, E. E., 701, 2526
 Wilson, G., 1120, 3325, 3328
 Wilson, J. D., 3054 i
 Wilson, K. S., 1657
 Wilson, P. W., 530
 Wilson, R. A., 710
 Wilson, R. D., 2816
 Wilson, R. G., 350
 Wilson, W. F., 228
 (Windsor Tobacco Substation), 343a
 (Winkler, A. J.), 1460
 Winkler, H., 1439
 Winslow, M. M., 2022
 Winter, T. S., 1369 i
 Winteringham, F. P. W., 3376
 Wirwille, J. W., 513, 2249
 Wismer, C. A., 2065
 Wit, J., 46
 de Wit, W., 537
 Withner, C. L., 294
 Withrow, A. P., 295
 Withrow, R. B., 295
 Witkus, E. R., 1808e
 Witt, R. H., 2680
 Wittwer, S. H., 277, 293, 1656, 2246, 2800
 Woglum, R. S., 1045c, 3153
 Wokes, F., 453
 Wolf, F. A., 933
 Wolfe, T. A., 385
 Wolfenbarger, D. O., 1968f
 Woltz, W. G., 927
 Wood, J. I., 647
 Wood, S. L., 2557
 Woodbridge, C. G., 123
 Woodcock, H. B. D., 3409
 Woodroof, J. G., 2121v
 Woodruff, N., 913
 Woodside, A. M., 159
 Woodward, E. F., 3386
 Woodward, H. C., 1368
 Work, P., 2301
 (Wressell, H. B.), 244
 Wright, J. O., 1579
 Wright, N., 1071
 Wright, R. C., 438, 893
 Wurgler, W., 896
 Wybou, A., 1423
 Wye College Department of Hop Research, 3444
 Wyman, D., 987i
 Wyss-Dunant, E., 1921
 Xabregas, J., 3037
 Yadlin, E. V., 2829
 Yang, S. L., 1034
 Yankovitch, L., 62
 Yarbrough, M. V., 3297
 Yarwood, C. E., 259, 1623
 Yaxley Mushroom Research Association Ltd., 482, 2164
 Yepes Y., E., 959x
 Yerington, A. P., 761, 762
 Yoder, D. M., 1836
 Yothers, M. A., 738, 1510
 Young, H. C., 2621
 Young, P. A., 817
 Young, R. E., 343w
 Young, V. A., 2711
 Yount, W. L., 2627
 Yunker, T. G., 435g
 Zacher, F., 3054m
 Zakopal, J., 2936, 2937
 Zaljadnova, A. P., 616
 Zamora, F. S., 389
 Zanzibar Department of Agriculture, 1200
 Zappe, M. P., 1
 Zaprometov, N. G., 2818
 Zarečkii, A. Ja., 1946
 Zarubin, A. F., 1416, 1417
 Zaumeyer, W. J., 1632, 2756, 2759
 de Zeeuw, D. J., 1635, 2803
 Zelenskaja, E. D., 87
 Zelenskaja, O. A., 833
 Zelenskii, M., 564
 Zeller, A., 510, 1257
 Zentmyer, G. A., 1896, 1968b
 Zeumer, H., 2661k
 Ziller, R., 2037
 Silva, S. S., 343e
 Zimmerman, J. F., 343x
 Zimmerman, P. W., 374k, 1592
 Zimmermann, A., 3056
 Zimmermann, J., 165, 2424
 Zirkle, C., 5
 Žitneva, P. I., 1375
 Zobel, M. P., 271
 Zobrist, —, 1841
 Žučkov, N. G., 66
 Zukel, J. W., 2675
 Žukova, G. S., 2903
 Zürich-Öerlikon Agricultural Research Station, 3445
 Zwintzsch, M., 2457

SUBJECT INDEX

Horticultural Abstracts, Vol. XX

- Abacá (*Musa textilis*)—see Manila hemp
 Abstracts on agricultural and horticultural engineering, a new periodical, 2177
 Acacia—see also Wattle—for shelter belts, white, 1454
Acanthoscelides obtectus—see also Bean weevil—3054m
Aceria essigi, 1507
Achatina fulica, 428, 940
Achras zapota, 2041, 2159
Aconitum, photosynthesis of, 2224
Acrobasis—
 caryae, 178, 179
 juglandis, 179
Acrocercops cramerella on cacao, 399
Acrolepia assectella, 2827
Actebia fennica, 2587
Actinidia chinensis, 485, 486
Actinomyces—
 spp. antagonistic to *Pythium*, 3332
 scabies—see also Potato scab—959o, 959s
Acyrtosiphum onobrychidis, 2648
Adiantum pedatum, 1821, 1879i
Adenosine triphosphate, isolation from plant tissue, 2303a
Aeglopsis spp. in Africa, 998
 Aeroplane—see also Helicopter—
 fumes for frost protection, 667
 for herbicide application, 241g, 1573, 3440
 for pest control, 166, 772, 2144, 2956
 Aerosol—see Sprays, aerosol
Afraurantium spp., 998
 Africa—
 drug plants of, 3397
 East—
 agriculture in, 2137
 Agric. Forestry Res. Organ., A.R. 1948, 3413
 coffee growing in, 2010, 3225
 French, citrus growing in, 3114
 South—see South Africa
 Agave—see also Sisal—*fourcroydes*, 3233
 Agricultural—
 meteorology, 535e, 1221-1223
 Statistics in U.S.A., A.R. 1948, 1201d
 Agriculture—see also Horticulture—
 in Brazil, 3195
 in Colonial dependencies, 3194
 in East Africa, 2137
 in Middle East, 1168
 in New Guinea, 396
 tropical, mechanization of, 3201
 in U.S.A., 460
 in Yemen, 3198
Agriilus—
 chrysoderes var. *rubicola*, 1495
 malicola n. sp., 726
 sinuatus, a pear pest, 162, 198f
Agriotes spp.—see Wireworm
Agrobacterium—
 rubi, 2733
 tumefaciens—see also Crown gall—a mutagenic agent, 1228
Agrostis canina, a lawn grass, 1877
Agrotis ypsilon, 2746
Albizzia spp. as shade trees, 3341, 3421
 Alcohol—
 from dahlia and sunflower tubers, 953
 sources of industrial, 2120
 Aldolase distribution in plants, 520
Aleurocanthus woglumi, 1932, 3153-3155
 Algae—see Seaweed
 Algal scum in pot plants controlled, 496
 Algeria—see also Africa, French—
 fig growing, 100e, 2309, 2310
 irrigation practices, 1264
 medicinal plants, 3027
 Alginic acid and alginates as soil amendments, 3411
 Alkalinity in pot plants, control of, 345
 Alligator weed (*Alternanthera philoxeroides*) control, 235, 240
Allium—see also Onion—
 roots, mitosis in, 959k
 spp. in U.S.A., 2820, 2821
 Almond—
 brown rot, 2522, 2526
 capnodis beetle, 2551
 Clastrosporium carpophilum on, 144
 Eurytoma sp. on, 1523
 frost protection, 1178
 lackey moth (*Malacosoma* sp.) on, 740
 Monosteira unicastata on, 740
 -peach hybrid as a rootstock, 1314
 root system, 62
 scale, banded (*Sphaerolecanium* sp.), 745
 Taphrina deformans on, 144
 wood development in, 601a
 Alpine botanical garden at Lautaret, 3056
Alternaria—
 brassicae, 1644
 carthami, 950
 circinans, 1644
 dauci, 835
 godetiae, 1813
 herculea, 1644
 kikuchiana, 691
 longipes, 932
 oleracea, 1644
 raphani, 2836
 rot of lemon, 3441
 senecionis, 965, 1820
 solani—see also Potato blight and Tomato blight—302, 1533, 1763
 tenuis, 935, 1644
Althaea rosea, frost resistance of, 1812

- Amaranthus gangeticus*, 3053s
Amaryllidaceae, embryo sac development in, 3103c
 America, South—
 plant collecting expedition to, 1881
 strawberry growing in, 2409
 American pomol. Soc., Proc. 63rd Convention, 2144
 Amide enzyme system, a plant, 1274v
Ammi visnaga, khellin from, 1808w
 Ammonia—
 anhydrous, applied as fertilizer, 1178, 1918, 3286
 toxicity to plants, 47
Ampelopsis spp. crossed with *Vitis* spp., 2426
Amphidasis cognataria, 1172
Anasa tristis, 244, 2807
Ancylis sp. on strawberry, 1488
 Anemone—
 culture in England, 1837, 3103j
 diseases, 1838
 Angola, oil palm growing, 413
Annonaceae, seeds of, 2074
 Annual Reports—*see also* Reports—
 Australia, C.S.I.R.O. 1947/48 and 1948/49, 1177, 1178
 Balsgård—*see below*, Föreningen
 Barbados Dep. Sci. Agric.—*see also below*, British West Indies—1948/49, 2146
 Basutoland Dep. Agric. 1947/48 and 1949, 494a, 3448a
 Bermuda Dep. Agric. 1948, 494b
 Boskoop, "de Proeftuin" te 1945 and 1947, 2147
 British Columbia Dep. Agric. 1949, 2148
 British Guiana, Sugar Exp. Stats 1949, 3423
 British Honduras Dep. Agric. 1948, 494c
 British West Indies Central Sugar Cane Breeding Station, Barbados, 1947 and 1948, 1169, 1170
 Campden Fruit and Vegetable Preservation Res. Stat. 1949, 3410
 Cawthron Inst. N.Z. 1948/49, 494d
 Centre Rech. ligue pomol. Déf. Fruit belge 1947 and 1948, 2151
 Ceylon—*see also below*, Rubber—Tea Res. Inst. 1948, 1191
 Cheshunt exp. Res. Stat. 1948 and 1949, 1174, 3411
 Coffee Res. Stat. Lyamungu, Moshi, 1947, 3433
 Colonial—
 Insecticides Cttee 1948/49, 1175
 Products Res. Coun. 1948/49, 1176
 Connecticut Tobacco Substation, Windsor 1946, 1201a
 Cyprus Dep. Agric. 1948 and 1949, 473, 2152
 Danish—
 Cttee Veg. Var. Trials 1947 and 1948, 2155
 Seed Testing Stat. 1948/49, 3053g
 Dansk Gartnerforening 1949, 2153
 Dominica Dep. Agric. 1947, 2154
 Annual Reports (*continued*)—
 Dominion of Canada—
 Dep. Agric., Forest Insect Survey 1947, 1172
 Minist. Agric. 1948/49, 2150
 Nat. Res. Coun. 1948/49, 494f
 East African Agric. and For. Res. Organ. 1948, 3413
 East Malling Res. Stat. 1949, 3414
 Edinburgh and East of Scotland Coll. Agric. 1948 and 1949, 3415
 Eidgenössische landw. Versuchsanst. Zürich-Oerlikon 1948/49, 3445
 Eidgenössische Versuchsanst. für Obst-, Wein- u. Gartenbau in Wädenswil 1946/48, 2172
 Éire Minist. Agric. 1947/48 and 1948/49, 1201c, 3448b
 Fiji Dep. Agric. 1948, 1201b
 Föreningen för växtförädling av fruktträd 1948, 2145
 Forestry Comm. Lond. 1948/49, 3416
 Geldermalsen, Rijkstuinbouwconsulentschap 1948, 477
 Georgia Exp. Stat. 1948/49, 3417
 Hong Kong, agric. Dep. 1948/49, 2156
 Hort. Educ. Ass. 1949, 3418
 Indian—
 Coffee Bd 1947/48, 478
 Coun. agric. Res. 1948/49, 3420
 Tea Ass., Sci. Dep., Toklai 1948, 3421
 I.N.É.A.C.* 1948, 2157
 Institut des Fruits et Agrumes coloniaux (I.F.A.C.) 1948, 2158
 I.R.S.I.A.† Belgium 1949, 3419
 Jamaica Dep. Agric. 1946/47 and 1947/48, 2159, 2160
 John Innes hort. Inst. 1949, 3422
 Kentucky agric. Exp. Stat. 1948, 2161
 Lausanne—*see below*, Station
 Long Ashton Res. Stat. 1949, 3424
 Macaulay Inst., Soil Res. 1948/49, 1182
 Maine agric. Exp. Stat. 1948/49, 479
 Malta Dep. Agric. 1938/46 and 1946/47, 1183
 Massachusetts agric. Exp. Stat. 1948/49, 1184
 Mauritius Dep. Agric. 1948, 2162
 Michigan agric. Exp. Stat. 1948/49, 3448c
 Minnesota agric. Exp. Stat. 1947/48 and 1948/49, 3448d
 Mississippi agric. Exp. Stat. 1947/48, 1946/47 and 1948/49, 481, 494e, 3425
 Mushroom Res. Stat., Yaxley, Peterborough, 1946/48 and 1949, 482, 2164
 Naaldwijk Proefstat. Groenten Fruitteelt onder Glas 1948 and 1949, 2165
 Nat. Inst. agric. Botany, Cambridge 1948/49, 3426
 Nebraska agric. Exp. Stat. 1948 and 1947, 483, 3427
 * Inst. national pour l'Étude agronomique du Congo belge.
 † Inst. pour l'Encouragement de la Recherche sci. dans l'Ind. et l'Agric.

Annual Reports (*continued*)—

New Zealand—

Dep. Agric., Hort. Div. 1948/49, 485

D.S.I.R. 1949, 486

Nigeria Dep. Agric. 1947 and 1948, 487, 1185

North Carolina—

agric. Exp. Stat. 1948, 3428

agric. Ext. Serv. 1949, 3448e

Northern Ireland agric. Res. Inst., Hillsborough, 1948/49, 494g

Northern Rhodesia Dep. Agric. 1948, 494h

Nyasaland Dep. Agric. 1948, 3429

Oregon agric. Exp. Stat. 1948/49, 3434

Overseas Food Corp., Sci. Dep. 1947/48, 488

Pennsylvania agric. Exp. Stat. 1948/49 and 1948/49 Suppl. 3, 1186, 3432

Pretoria agric. Res. Inst. 1948/49, 1195

Pyrethrum Board of Kenya 1949, 2168

Queensland—

Acclimatisation Soc. 1948/49, 1188

Dep. Agric. Stock 1948/49, 1187

Sugar Exp. Stats, Bureau of 1949, 1171

Rothamsted exp. Stat. 1948, 1181

Rubber Res. Bd Ceylon 1948, 1173

Sarawak Dep. Agric. 1948, 2169

Seychelles Dep. Agric. 1948, 490

South Africa—*see also above*, Pretoria, and below, Western—

Dep. Agric. 1948/49, 1193

Div. agric. Educ. Res. 1948/49, 1199

Div. Bot. Plant Path. 1948/49, 1196

Div. Ent. 1948/49, 1197

Div. Hort. 1948/49, 1194

St. Vincent agric. Dep. 1948, 491

Station fédérale d'essais vitic. arboric., Lausanne et Domaine de Pully 1948, 1180

Sugar Res. Foundation, N. York, 6th, 492

Swaziland Dep. Native Land Settlement 1948, 494i

Tanganyika Dep. Agric. 1947, 1190

Trelawney Tobacco Res. Stat., S. Rhodesia 1948, 2171

Trinidad and Tobago, Dir. agric. Administ. Rep. 1948, 1192

Tunisie, Serv. bot. agron. 1948 and 1947, 493, 494j

Uganda Dep. Agric. 1948, 3434

United Planters' Ass. Southern India, Tea sci. Sec. 1948/49, 3435

United States—

Administ. agric. Res. 1949, 3437

agric. Statistics 1948 and 1949, 1201d, 3442

Bureau agric. indust. Chem. 1949, 3438

Bureau Ent. Plant Quarantine 1949, 3439

Bureau Plant Industr. Soils, agric. Engng 1949, 3440

Dep. Agric., agric. Exp. Stats 1949, 3441

Secretary Agric. 1949, 3436

Vineland hort. Exp. Stat. 1947 and 1948, 3430

Wattle Res. Inst. 1949, 3443

West African Cacao Res. Inst., Tafo, 1947/48, 2174

Annual Reports (*continued*)—

West of Scotland agric. Coll. 1948/49, 2178c
Western Province Fruit Res. Stat. 1948/49 1198

Wye Coll. Dep. Hop Res. 1949, 3444

Zanzibar Dep. Agric. 1948, 1200

Zuid-Hollandsch—*see above*, Naaldwijk

Zürich-Oerlikon—*see above*, Eidgenössische

Annual Review—

of Microbiology 1949, 480

of Plant Physiology 1950, 3446

Ant(s)—

in cacao, 3211

control, 401, 722, 1028, 2295

damage to kohlrabi, 1808b

Anthers, differentiation in excised, 1249

Anthocyanin, 2200

Anthonomus—

cinctus, 161

pomorum—*see* Apple blossom weevil

rectirostris, 2172

Antibiotics—*see also individual compounds and sources*—

in banana, cabbage and sweet potato, 3438

for the control of plant diseases—*see also* Sprays, fungicides, actidione—1533, 2610, 2612, 2613, 2660t, 2803

Diospyros spp., a source of, 3176

in flowering plants, 2611, 2612

a review, 2247

seed germination, inhibited by, 518

in soil, 2610

Antilles, Station centrale des cultures fruitières, Foulaya, Guinée, 2158

Antirrhinum—*see* Snapdragon

Aonidiella aurantii—*see* Citrus scale, red

Aphelenchoides ritzema-bosi, 964

Aphelinus mali, 155

Aphid(s)—*see also under scientific names and under host plants*—

control—

by DDT, 939, 1492, 1756, 1761

by dormant sprays, 1491, 1526, 2571, 2637

by nicotine, 2545

by parathion, 938, 939, 1761, 1793, 2545, 2546, 2640, 3439

systemic, 755, 1550, 1553, 2546, 2547

by TEPP, 1793

by various aphidicides, 154, 1493, 2571, 2741, 2742

migration and virus spread, 2492

woolly—*see also* Apple woolly aphid—

biological control, 155

chemical control, 156, 189, 486, 718, 757, 2640

resistance in apple, 1178

in Sweden, 723

Aphis—

citricidus, 3145

fabae, 1550, 1553, 2634, 2648

pomi, 1491, 1493, 2547

rumicis, 1493

tavaresi, 386, 1196, 1931

Apple—*see also* *Malus* and *Pyrus*—
Agrilus malicola on, 726
 aphid—*see also below*, woolly—1491, 1493,
 1526, 2547, 2640
Armillaria root rot, 694
 ascorbic acid—*see also below*, vitamin C—
 and calcium injection into fruit and
 limbs, 1361
 bacterial blight (*Pseudomonas syringae*), 2505
 bark injury, soil acidity causes, 588
 basidiomycete species on, 145
 biennial bearing, 84, 97, 1332, 1450, 2353,
 2354, 2378
 bitter pit, 122, 1429, 2464
 bitter rot (*Glomerella cingulata*), 753
 black spot—*see below*, Scab
 blossom—
 in autumn, 1450
 thinning by sprays, 97, 499, 598, 1345,
 2148, 2378, 3427
 weevil, 727, 757, 1180, 2564, 2618
 blotch, sooty, 693
 boron—
 content, 2360
 deficiency, 122, 655, 656, 666, 2465, 2476
 breakage of limbs, 1428
 breeding, 61
 brown rot, 712, 753, 1469, 1470, 2519, 2520
 bud mutation—*see below*, sport
 canker (*Nectria galligena*), 1471, 2527, 2528
 capsid, 1549, 2565, 2618
 chat fruit virus, 2494
 chimaeras, 3369
 chlorosis in—*see also* iron deficiency—2467
 cider—*see also* Cider—as bush tree, 2318
Cladosporium herbarum on, 700
 codling moth on—*see also* Codling moth—
 171, 172, 188, 718, 736, 737, 772, 1180,
 1469, 1510, 2582
 composition of tree, 87, 91, 579, 2355-2357
 copper deficiency, 486, 2468-2470
 cordons, 484
 cover crops, 92, 484, 2368, 2369
 cracking of skin, 2474-2476
 cropping—
 twice yearly, 2351
 variations in, 80
 crown rot (*Phytophthora cactorum*), 566,
 2530
 cuttings—*see also below*, rootstock—2437
Cylindrosporium sp. on, 148
 2,4-D effect on, 3440
 dehydroascorbic acid content, 3384
 delayed foliation, 132
 dips—*see below*, storage dips
 diseases, non-parasitic, 652
 drought effect on, 666
 exports from U.S.A., regulations on, 1274w
 fire blight resistance, 2163
 fly speck, 693
 foliage sprays for trace element application—
see also below, zinc, *etc.*, deficiency,
 2166
 frameworking, 1369j, 2331

Apple (continued)—
 frost—
 damage—
 to fruit, 2479
 winter, 567, 671, 1433, 1434, 2333, 2480
 resistance—*see also below*, rootstocks,
 hardy—1318, 1435
 fruit—
 abscission, growth substance causes, 2416
 biochemistry of, 27, 2090
 drop—
 hormone in seed controls, 1358
 spraying or dusting to retard, 98, 486,
 1359, 2379
 growth, 572
 metabolism—*see also below*, storage—
 2358, 2359
 oxidase enzymes, inactivation of, 3390e
 quality, factors affecting, 2349
 ripening—*see also below*, maturity—
 growth substance hastens, 2380
 set, factors affecting, 85
 thinning, 2378
 grading, 99, 1274w, 1364, 1366
 grafting, 77, 560
 green crinkle, 486
 growing—*see also below* varieties—
 in Argentina, 601c
 in Crimea, 548
 in Holland, 484
 in India, 541
 in Scotland, 546
 in Siberia, 1278, 1279
 in Tasmania, 2304, 2391i
 grubs in, 1566v
 hail damage, 1450
 harvesting, time of, 2384, 2385
 hedge system of training, 88, 484
 internal bark necrosis, 662
 internal cork—*see above*, boron deficiency
 iron deficiency, 660
 irrigation, 1356
 juice production, 457d, 457e, 3390h
 juvenile form, 82, 2348
 leaf—
 chlorophyll content, nitrogenous fungi-
 cides and insecticides do not affect, 1349
 citric and oxalic acid content, 660
 colour an index of N status, 1335
 -hopper, 734, 2568
 modifications, 2348
 -roller—
 moths, 170
 red-banded, 175, 176
 magnesium deficiency, 486, 1425
 manganese toxicity, 662
 manuring, 91, 476, 486, 579, 581, 1347, 2362,
 2363, 3440
 marketing in U.S.A., 1368
 maturity tests, 1333, 2384, 2385
 mealybug, Comstock, 3439
 medullary bundles in shoot, 573
 mildew (*Podosphaera leucotricha*), 702, 1180,
 1472, 1533, 2172

SUBJECT INDEX

Apple (*continued*)—
 mosaic, 486, 2494
 moth, light brown (*Tortrix postvittana*), 171,
 188, 189, 736
 mulching, 479, 484, 1351, 2368
 nitrogen deficiency, 2166
 organic constituents of the tree, 2355-2357
 packing, 1132, 1366, 1367, 2389
 "papery bark" disease, 145, 148
 pectase, 457d
 pectin, 2090
 pest(s)—
 control, 1535, 2639
 from shade trees, 1172
Pezicula crataegi on, 1482
 phosphoric acid content of fruit, 27
 pollen, growth promoting and retarding
 substances in, 2344
 pollination, 1321, 1322, 1324, 2344, 2347
 pruning, 87, 1177, 1338, 1339, 1341, 1342,
 1369f, 2391f
 red spider—*see also* Red spider—153, 172,
 188, 486, 711, 718, 772, 1180, 1509,
 1526, 2540, 2573, 2574, 2577
 ringing, 96
 ripening, growth substances affect, 3440
 root grafting, 67
 rootstock(s)—*see also below*, stem builders—
 breeding, 2172
 crab—
 French, 1308
 Virginia, 483
 cuttings, 76, 2147
 East Malling, 565, 566, 1307-1309, 2335-
 2337, 2469
 in France and Switzerland, 2334
 hardy, 476, 564, 567, 2163, 2332, 2337
 Hibernal, 483
 Malus spp. as, 64
 in New Zealand, 565
 pear seedlings as, 67
 seedling, 65, 66, 1305, 2333
 seedling clones, 63
 shipment of, 565
 trials—
 in Australia, 1177
 randomized blocks for, 2189
 statistical evaluation of, 568
 U.S. clones, 1308
 woolly aphid resistant—*see also below*,
 woolly—486, 1178
 rubbery wood disease, 2493, 2494
 San José scale—*see also* San José scale—
 1526
 sawfly, 743, 1522, 2597, 3101
 scab (*Venturia inaequalis*)—
 control, 188, 704-706, 708-712, 770, 1180,
 1465, 1467, 1469, 1535, 1536, 1566g,
 2148, 2533
 ground treatment for, 710
 resistance to, 146, 703
 warnings, 1423
 scald, 1138, 3369
Sclerophoma mali on, 2531

Apple (*continued*)—
 soil management—*see also above*, cover
 crops—588, 2368, 3430
 spindle bush, 1339
 sports, 81
 spray—
 injury, 1559, 2643
 residue, 2650, 2652, 2653
 spraying—
 cost of, 185
 starch, 1153a
 stem builders, 476, 483, 562, 567, 1318, 2163,
 2338
 storage—
 air purification in, 3368
 cold, 3367
 DDT and parathion do not affect, 758
 dips, 1139
 gas, 457a, 1138, 3367
 Granny Smith, 597
 growth substance effect on, 597
 in Italy, 599
 manuring affects, 1178
 metabolism in—*see also below*, respira-
 tion—1135, 2090, 2121t, 2358, 2359
 moss in, 2172
 quality, time of harvesting affects, 2384,
 2385
 respiration in, 1138, 1177, 1178, 2172
 scald—*see above*, scald
 sheds, 441
 volatile substances, removal of, 1138
 wraps, 1140, 1365
 sucker (*Psylla* sp.), 1549
 sun—
 damage to tree, 1434
 scald, 2476
 temperature sums for, 83
 thinning—*see above*, blossom and fruit
 training—*see also above*, cordon—
 on the ground, 1278, 1279
 hedge system of, 88, 484
 open centre, 1339
 spindle bush, 1339
 transplanting, 600, 1863
 varieties—
 Annurca, 599
 Baxter Black Winesap, 2319
 Bramley's Seedling, 2351
 Caldaro's Rose, 1369c
 for Canada, 476
 cider, 2318
 Delicious, 85
 Glockenapfel, 666
 Granny Smith, 597
 Idajon, 547, 3441
 Idared, 547, 3441
 Jefferis, 1291
 Lemon Pippin, 1290
 Lord Lambourne, 2493, 2494
 Mičurin's, 548
 Northern Spy, 96
 Rose of Mantua, 1369c
 for Russia, 1289

Apple—varieties (*continued*)—

- Sergente, 599
- Strauwald's Pearmain, 1292
- in Switzerland, 463
- in U.S.A., 1369g
- Whetstone, 2391h
- vitamin C content, 2126
- volatile substances—*see also above*, storage—
457a
- water-core disease, 2507
- weed control, 1582, 1584
- white grub control, 167
- winter moth (*Cheimatobia brumata*), 1516
- woolly aphid—*see also* Aphid, woolly, and
above, rootstocks—control, 155, 718,
772, 1180, 2148
- xylem, breakage related to abnormal, 1428
- zinc—
content, 486
deficiency, 124, 656, 665, 2470, 2473

Apricot—

- apoplexy, 2462
- asteroid spot, 2460
- blossom thinning by sprays, 2148
- breeding, 493, 553
- brown rot, 1541, 2522, 2523
- capnodis beetle control, 2550
- codling moth, 737
- collar rot, 553
- delayed foliation, 1432
- frost—
damage, 671
protection, 673
- growing—
in Baluchistan, 552
in California, 1280
- gummosis (*Cytosporina* sp.), 1178
- harvesting, 1136
- nitrogen assimilation by bacterial symbionts,
1251
- Orthosia hibisci* on, 1518
- pruning, 552, 2375
- root system, 62
- rootstocks, 2163
- scab (*Cladosporium* sp.), 2511
- in shelter belts, 1285
- shot hole (*Coryneum*), 2148, 2511
- storage, 1136, 1198
- Verticillium* wilt, 715, 3147
- virus, a new, 683

Arabia, flora of the Kuwait, 435a

Araecerus fasciculatus, 1068

Archips cerasivorana, 2537

Areca palm, 1123, 2075

Argentina—

- citrus rootstocks, 378, 3124
- fruit growing, 601c, 2317
- olive growing, 55
- tomato growing, 867

Argyrotaenia—

- citrana*, 2589
- velutinana*, 175, 1514

Armillaria—

- mellea*, 143, 316, 694

Armillaria (*continued*)—

- root rot of hop, 328
- spp. on coffee, 1067

Arracacia xanthorrhiza, 1961

Arrowroot, 491, 2076

Arsenic—*see also* Sprays, insecticides—injury
to peach, 2463

Artemisia—

- laxa*, an essential oil and a medicinal plant,
1796
- spp. as medicinal plants, 1798, 3033

Artichoke—

- globe—
irrigation of, 1264
Sclerotinia sclerotiorum on, 3053n
- seed production, 820

Jerusalem, 1808h

Artocarpus spp., 2157

Arum, soilless culture of, 2258

Asclepias syriaca growing in U.S.A., 336

Ascochyta—

- chrysanthemi*, 352
- pinodella*, 1674, 2763, 2832, 2833
- pisi*, 1626, 2831

Ascomycetes and Fungi imperfecti in Norway,
parasitic, 2508

Ascorbic acid—*see also* Vitamin C and indi-
vidual plants under vitamin C—

- biosynthesis, 48h, 3383
- injections into apple fruit and limbs,
1361
- metabolism, 812
- translocation in plants, 3383

Aspalanthus contaminatus, composition of,
435e

Asparagus (*Asparagus*)—

- beetle (*Crioceris* spp.), 1619
- canning, 343m
- composition of spears, 2121q
- culture, 1617
- diseases and pests, 3053q
- leaf composition, 813
- plumosus nanus*, 1174
- propagation, 821
- quality, 343m
- rust, 2755
- selection, 821, 1618
- storage, frozen pack, 343m, 2126
- thrips, 1620
- weed control, 212, 217, 219, 777, 782

Aspergillus niger on onion, 1667

Aspidiotus destructor, 1030

Assam—

- black pepper growing, 1127
- citrus growing, 995, 1003-1006

Aster diseases, 3067

Athalia—

- colibri*, 1521, 2780
- cordata*, 1815

Atomic energy in agriculture, 1216

Atropa belladonna, 48g, 1796

Auchincruive—*see* West of Scotland agric.
Coll.

Aurantaceae of tropical Africa, 998

SUBJECT INDEX

- Australia—*see also* Queensland and Victoria—
 apple diseases, non-parasitic, 652
 C.S.I.R.O. 1947/48 and 1948/49, 1177, 1178
 horticultural research in, 495
 medicinal plants, 3028
 South—
 tobacco growing, 918
 virus diseases in, 251
 Western, banana growing, 1075
- Austria—
 fruit growing, 1276
 pests and diseases, 1566s
 seed testing in, 1272
- Avocado—
 budwood storage, 1886
 composition of plant, 1895
 decline (*Phytophthora cinnamomi*), 1896, 1897, 1968b
 frost—
 damage, 1888, 3105
 protection, 1889
 fruit composition, 1894
 grafting, 1888, 2162
 growing—
 in French Africa, 1883
 in Queensland, 388, 3107
 in South Africa, 1194
 irrigation, 1892
 manuring, 1894
 nitrite injury to seedlings, 1017, 1968b
 origin of, 1884
 pest control, 1030-1032
Phytophthora diseases—*see above*, decline
 raising from seed, 1188
 rootstocks, 1887
 seed storage, 1885
 soil—
 drainage and seedling growth, 1890
 management, 1891
 storage, 2159
 sun blotch, 1898
 thinning of groves, 1893
 transplanting, 2160
 varieties—
 in California, 3108
 in Queensland, 388
 Taft, 1898
- Azalea—
 bud and stem blight (*Sporocybe azaleae*), 1865
 dormancy breaking, 371
 forcing, 2147
 layering, 3091
 mulching, 3095
 petal blight (*Ovulinia* sp.), 982, 1858, 1859
- Azotobacter*—
chroococcum, 1462
 inoculation with, 926
 in tea rhizosphere, 3343
- Bacillus*—
amylovorus, 1464
polymyxa, 2787
- Bacteria—
 cytology of, 2125
 virulence affected by weather, 1566c
- Bacterial—
 canker—*see individual crops*
 symbionts, nitrogen assimilation by, 1251
- Bactericides—*see individual sources and compounds*
- Bacterium*—
mali, 2507
phytophthorum, 649, 1759
pruni, 1186
savastanoi, 1311
solanacearum, 2925
tabacum, 1791
tumefaciens—*see* Crown gall
vesicatorium, 1719
- Bactrocera umbrosa*, 3358
- Baits for insect pest control, 1977
- Balaninus nucum*, 2559
- Balsgård, Swedish Ass. for Fruit Tree Breeding, A.R. 1948, 2145
- Baluchistan, apricot growing, 552
- Bamboo—
 gregarious flowering, 2080
 growing—
 in the Caribbean, 472
 in England, 373, 983
 powder-post beetle (*Dinoderus* sp.), 3349
 propagation, 2077
- Banana—*see also* *Musa* and Plantain—
 analysis, 3402
 borer (*Cosmopolites sordidus*), 1975, 1977, 2158
 breeding, 3202
 bunchy top disease, 3206
 chlorosis, infectious, 3206
 classification, 435b, 3363d, 3363e
 growing—
 in Antilles, 2158
 in Belgian Congo, 2157
 in Cameroons, 2158, 3199
 in Canary Islands, 1074
 in India, 1979
 in Jamaica, 2159, 2160
 in Queensland, 1187
 in South Africa, 1076
 in Western Australia, 1075
 leaf spot (*Cercospora musae* and *Mycosphaerella musicola*), 408, 1982, 3202
 a manual on, 3402
 mosaic, 3206
 panama disease, 3202
 propagation, 1980, 1981
 pruning, 3204
 research at I.C.T.A., Trinidad, 1978
 ripening, artificial, 445, 1076, 3402
 scab moth (*Nacoleia* sp.), 1975, 3205
 soil regeneration, perennial pea for, 1187
 squinter disease (*Nigrospora sphaerica*), 406, 407
 storage—
 dips, 406, 407
 frozen pack, 3380

- Banana** (*continued*)—
 transport, 445
 trash, paper from, 3207
 variety, Moongil, 3203
 weevil—*see above*, borer
- Barathra brassicae**, 2739
- Barbados**—
 Dep. Sci. Agric., A.R. 1948/49, 2146
 British West Indies Central Sugar Cane
 Breeding Station, A.R. 1947 and 1948,
 1169, 1170
 sugar cane growing, 1110
- Barberry**, eradication by herbicides, 3439
- Basella rubra**, a vegetable, 3053v
- Basutoland** Dep. Agric., A.R. 1947/48 and
 1949, 494a, 3448a
- Bay rum** (*Pimenta racemosa*), manuring, 432
- Bean**—
 anthracnose, 6, 2760
 aphid, 1493, 2634
 auxin transport in hypocotyl, 2215
 beetle, Mexican, 2764-2768
 breeding, 255
 broad—
 blight (*Ascochyta* spp.), 1626, 2763
 bean weevil (*Bruchus* sp.) control, 1624
 crown gall of, 2733
 insect injury to blossom, 261
 photoperiodic response, 10
Podagaria sp. on, 2739
 rust, 824
 shoot development in, 2214
 canning, 3410
 chlorosis, lime-induced, 823
 chocolate spot, 2761
 composition, 247, 806
 damping-off, 1635
 disease(s)—
 control, 2759
 in Holland, 257
 phenology, 2732
 resistance, 1629, 1633
 drought resistance, 814
 frost damage to, 2758
Fusarium root rot, 3054f
 growing—
 in California, 343h
 in Queensland, 256
 growth substance—*see also above*, auxin—
 effect on, 14, 535k, 792, 1226, 1233,
 1578, 2230, 2239-2242, 2691
 harvesting, 254
 irrigation, 810, 2731
 lima—
 stem anthracnose, 2760
 weed control—*see also below*, weed
 control—218
 manganese deficiency, 2272
 manuring, 1621
 molybdenum deficiency, 258
 mosaic, 959a, 1626, 3019
 mung, 1631
 nematode control, 3428
 nutrition, 1622
- Bean** (*continued*)—
 photosynthesis, 2224
 pod spot (*Ascochyta* sp.), 1626, 2763
 powdery mildew, 259, 1622
 root system, 814
 rust, 824, 1623, 1626, 1627, 1629, 2761
 salt tolerance, 804, 807
Sclerotinia sclerotiorum, 2762
 seed—
 disinfection, 1630, 1635
 fly (*Hylemyia* spp.), 260, 2769
 germination, 822
 growth inhibitor from, 2251
 mechanical injury to, 254
 spray injury to—
 arsenic, 1557
 DDT, 1628
 storage, frozen pack, 2101, 3410
 varieties—
 Contender, 1634
 Fullgreen, 1633
 in Holland, 3054j
 Hawaiian Wonder, 1629
 in Hungary, 2757
 Topcrop, 1632, 2756
 Wädenswil, 2172
 virus 1 and 2, 257, 3053p
 vitamin C content, 1631
 weed control—*see also above*, lima—208,
 1579, 2697
 weevil—*see also above*, broad bean—2739,
 3054m
 wireworm control, 1625
 yields, factors affecting, 803
- Bee(s)**—
 diseases, 1369 l, 2391g
 foul-brood, American, 79
 herbicide effect on, 1181
 -keeping, 78, 1323
 pollination by, 569, 570, 1323, 1324, 2346,
 2347
 spray damage to, 196, 765, 766, 1560, 1561,
 2172, 2638
- Beech** aphid, woolly, 3102
- Beetle**—*see* Flea beetle, *etc.*, and *hosts*
- Beetroot**—
 bolting and spacing in, 250
 colour, 825
 frost damage, 2482
 glutamine isolation from, 2205
 growing in Oregon, 959g
 irrigation, 810
 root system, 826
 salt tolerance, 807
 seed germination, 1194
 sodium requirements, 1636
 thinning, 1210
 variety trials in Sweden, 343s
 weed control, 212, 214
 wilting in, 826
- Begonia**—
Botrytis cinerea stem rot, 1840
 growing—
 in California, 3103a

- Begonia—growing (*continued*)—
in Philippines, 1839
mildew control, 1841
semperflorens, pollen viability, 961
- Belgian Congo—
climatic cycles in, 3363g
copal bearing trees, 2085h
ecological survey of, 1130c
I.N.E.A.C.* Rep. 1948, 2157
oil palm growing, 3199
- Belgium—
Centre Rech. Ligue pomol. Déf. Fruit belge,
A.R. 1947 and 1948, 2151
fruit—
growing, 538, 539
storage, 1134
I.R.S.I.A.,† A.R. 1949, 3419
peach growing, 1283
soilless culture in, 2258
tobacco growing, 3006
- Benzotropolone, an antibiotic, 2660c
- Berberis* spp.—see also Barberry—rasañjana
from, 952
- Bergenia delawayi*, arbutin and tannin from,
1796
- Bermuda—
Dep. Agric., A.R. 1948, 494b
grass control, 236, 795
- Berry—see Small fruit and separate berry fruits
- Bibionidae* spp. on potato, 3101
- Bibliographical references, the citing of, 1207
- Biennial bearing—
in apple, 84, 97, 1332, 1450, 2353, 2354, 2378
in coffee, 1065
in orange, 1915
- Biological—
control—see Pest control, biological, and
Weed control, biological
journals, title abbreviations of, 2124
- Bird(s)—
control, 486, 649, 2605-2608
injury—
to blueberry, 1528
to buds, 1527
Monilia cinerea, spread by, 2524
- Blackberry—
breeding, 2392
control by growth substances, 1177, 1572,
2683
crown-gall, 2733
gall mite (*Eriophyes* sp.), 2578
hybrids, 103
leaf hopper, 2569
mild streak, 1456
mite (*Aceria essigi*), 1507
-raspberry hybrid, 103, 3422
rust (*Kuehneola* sp.), 1480
sterility virus, 1456
temperature sums for, 83
varieties in U.S.A., 1370
- * Inst. national pour l'Étude agronomique du Congo
belge.
- † Inst. pour l'Encouragement de la Recherche sci.
dans l'Ind. et l'Agric.
- Blackberry (*continued*)—
Verticillium wilt, 2735
vitamin C content, 3390g
- Black currant—see also Currant—
composition, 2398
cuttings, 1375, 2397
growth substance content, 18
manuring, 605, 2398
root development, 605
soil—
cultivation, 2368
erosion controlled by, 94
variety identification and classification, 1374,
2396
- Black leg of seedlings, 1608'
- Blister beetle, 244
- Blueberry—
Actebia fennica on, 2587
bird damage to, 1528
Botrytis twig blight, 1476
cuttings, 1379
frost damage to, 1436
growing—
in Finland, 1378
in Maine, 479, 1377
manuring, 1379, 1380
mulching, 3441
mummy berry (*Sclerotinia vaccinii*), 1481
rabbit eye (*Vaccinium ashei*), 2393
stunt virus, 1456
a tetraploid, 608
trials, statistical design of, 2191
varieties—
Berkeley, 1376
Callaway and Coastal, 2393
canker resistant, 2394
Coville, 1376
for Massachusetts, 1419a
in Finland, 1378
weed control, 1582
- Boehmeria* spp.—see Ramie
- Boga medeloa*, a cover crop of tea, 429
- Boletus variegatus*, a pine symbiont, 2229
- Book reviews—see Reviews
- Borassus* spp., distribution and utilization of,
3351
- Borneo—see also Indonesia and Sarawak—
Manila hemp growing in, 3235
- Boron—
content of apple tissues, 2360
copper toxicity reduced by, 33
deficiency—
in apple, 122, 655, 656, 666, 2465, 2476
in carrot, 2791
in cherry, 2466
in chrysanthemum, 1174
in peach, 123
in pear, 655, 3440
in potato, 308
in raspberry, 486
in sugar cane, 1098
in tobacco, 928
in tomato, 2862
in vine, 2449

- Boron (*continued*)—
determination in plant and other material,
1254, 1274s, 2271
toxicity, 123, 476, 928, 1909, 1919, 3138
Boskoop, "De Proeftuin" te, A.R. 1945 and
1947, 2147
Bostrychopsis jesuita, 1931
Botanical Gardens—
Florealp, Champex, 2183
Lautaret, 3056
Botryodiplodia theobromae, 2007, 2039
Botryosphaeria sp. on tung, 3185
Botrytis—
allii, 1667-1669
blight of *Saintpaulia*, 969
of blueberry, 1476
cinerea—
on begonia, 1840
on bouvardia, 1817
control in soil, 2172
on hop, 329
on tobacco, 935
on vine, 2172
gladiolorum, 1845
rot of carrot, 3377
spp., rot of bulbs, 971
Bougainvillea cuttings, 2162
Bouvardia, *Botrytis* blight on, 1817
Box elder bug (*Leptocoris* sp.), 3092
Boxwood, gall midge on, 3101
Boysenberry growing in Oregon, 607
Brassica(s)—
Entomoscelis adonidis, a pest of, 2798
juncea, 335
molybdenum deficiency in, 2770
seed—
crops, *Dasyneura* sp. a pest of, 828
identification of, 246
Brazil—
agriculture of, 3195
cacao growing, 3211
Breadfruit—*see also* *Artocarpus*—propagation,
2160
Breeders, list of plant, 1205
Breeding—
apple—
rootstocks, 2172
varieties, 61
apricot, 493, 553
banana, 3202
bean, 255
blackberry, 2392
cherry, 3430
chicory, 267
citrus, 1900
coconut, 1058
coffee, 478, 2157, 3363p
fruit—
embryo culture in, 1287
in Italy, 2315
at Long Ashton, 2313
at Max Planck Inst., 2457
at Minnesota Univ., 1286
polyploidy in, 1372
Breeding—fruit (*continued*)—
in Sweden, 2145, 2314
gooseberry, 610
guayule, 3048
Hevea, 3252, 3253
hydrangea, 2172
mango, 1078
medicinal plants, 334
mentor effect in, 559, 633
mint, 1803
at Mississippi agric. Exp. Stat., fruit and
vegetable, 3425
papaw, 1194
pear, 1298
pepper (*Capsicum*), 1650, 1651, 2784
plant, a manual on, 3398
plum, 559
potato, 307, 476, 489, 2940, 3054i
Scottish Soc. Res. Plant., Rep., 489
squash, 3053w, 3054g
sugar cane, 2146, 3274, 3275
at Svalöf, Sweden, plant, 797
sweet potato, 1952
tobacco, 323, 343d, 929, 1199
tomato, 290, 343e, 1693, 1698, 2198, 2846,
3054d
tung, 393
vine, 633, 1198, 2424-2427, 3430
at Wädenswil, fruit and vegetable, 2172
Bremia lactucae, 1180
Brevicoryne brassicae, 1550, 1649, 2742, 2794
Brinjal—*see* Egg plant
British—
Columbia, Dep. Agric., A.R. 1949, 2148
Commonwealth, climatological table for
1948, 1220
Guiana—
Sugar Exp. Stats, A.R. 1949, 3423
sugar cane growing, 3272, 3278
Honduras, Dep. Agric., A.R. 1948, 494c
West Indies, sugar cane growing, 3266
Broccoli—*see also* Cauliflower—
mosaic, 829
whiptail, 838, 1637-1639
Bromheadia finlaysoniana, flowering of, 1879f
Bruchus—
lentis, 2810
obtectus—*see* Bean weevil
pisorum—*see* Pea weevil
rufimanus, 1548, 1624
Brussels sprouts—
aphid control, 1550
molybdenum deficiency, 1639
Verticillium wilt of, 2735
Bryobia praetiosa, 172
Bryophyllum calycinum—
cuttings, 2221
metabolism of, 48j, 1274x
Bud—
injury by birds, 1527
sports in fruit trees, 81, 1369b
Budding—*see separate crops*
Buddleia—
hybrids, 374g

- Buddleia* (continued)—
 spp. for waste land, 2143
- Bulb(s)—*see also individual species*—
Botrytis rot of flower, 971
 cooling, 3076
 diseases, 987f
 forcing, 3076
 formaldehyde treatment, 3077
 sandy soils for, 355
 storage, 438, 975, 976, 2153
 weed control, 212, 3428
- Butyrospermum parkii*, 2082, 2083
- Byctiscus betulae*, 165
- Cabbage—
 aphid—*see Brevicoryne*
Athalia colibri, 2780
 black rot (*Xanthomonas campestris*), 1645, 1646
 bolting, 2774
 carotene content, 455
 canker (*Phoma lingam*), 1647
 caterpillars, control of, 834, 1655, 3432
 clubroot, 649, 833, 1648, 2778
 composition, 247, 806, 2775
Cortarinia nasturtii on, 2839
 damping-off, 1808s
 grafting, 2773
 growing—
 in England, 343r
 in New Zealand, 343f
 in Siberia, 802
 irrigation, 2775, 2776
 Kerguelen (*Pringlea antiscorbutica*), 832
 maggot (*Hylemyia*)—*see below*, root fly
 manuring, 831, 2772
 molybdenum deficiency, 1639
 origin of, 262
 planting, machines for, 2296
 red, seed, spectro-photometrical absorption curves of, 246
 ring spot (*Mycosphaerella brassicicola*), 144
 root fly (*Hylemyia* sp.), 264, 2296, 2781, 2782
Sclerotinia stalk rot, 2779
 seed—
 disinfection, 805, 830, 1646, 1647
 heads, doubling of, 2777
 production, 245, 1645, 1646, 2773, 2777, 2779, 3431
 spectro-photometrical absorption curves, 246
 weevil (*Ceutorhynchus assimilis*), 828
 spacing, 2772
 storage, 2094
 tetraploid, 2254
 variety, FCU, 2771
Verticillium wilt of, 2735
 virus diseases, 1642, 1643
 vitamin C content, 455, 1641
- Cacao—
 bean fat content, 2174
 budding, 1986-1988
- Cacao (continued)—
Calonectria rigidiuscula on, 2174
 capsid control, 2174, 3215
 cherelle wilt, 400, 3214
 clones, "Mobwasa", 2157
 composition of tree, 1993
 "criollo", 1051, 1200, 1984
 curing, 1176, 1192, 3216
 cuttings, 1054, 1192, 1200, 1986, 1988, 2174, 3210
 fruit drop, premature, 400, 3214
 growing—
 in Brazil, 3211
 in Ecuador, 1052, 3210
 in Indonesia, 399, 1054
 in Nigeria, 487, 1185
 in Venezuela, 1051, 1055, 3209
 in Zanzibar, 1200
 growth flushes, 1990
 magnesium deficiency, 1200
 mealy bug, 1996, 1997
 pests, 399
Phytophthora disease, 399, 1998
 planting, 2174
 pollination, 1992
 Res. Inst. Tafo, West Africa, 1983, 2714
 research, need for, 1050
 rootstocks, 1987
 seed—
 germination, 1986, 3213
 storage, 3212
 seedling development, 1989, 1994
 selection, 1985, 3208
 shade trees for, 1053
 shading, effect of, 1990, 1991, 2157, 2174
 spacing, 1185, 2157
 species of Central America and Mexico, 1984
 stomata, 1991
 swollen shoot, 1175, 1185, 1994-1997, 3215
 virus disease(s)—
 in Trinidad, 1192
 a new, 2174
 "watery pod" (*Monilia roleri*), 1055
 wilt, 1993
 witches' broom, 1053, 1055, 1130d
- Cacoecia—
podana, 170
rosana, 2590
- Cactus—
 composition, 456
 grafting, 3090
- Caffeine determination, 3390j
- Caladium, dormancy breaking and prolonging, 362
- Calcium—
 deficiency in chrysanthemum, 1174
 estimation, 535d, 1274p, 2264, 2269
 injections into apple fruit and limbs, 1361
 ion influence on cation intake, 1622
 manuring—*see Liming and individual crops under manuring*
 potassium uptake not affected by, 2727
- Calendula officinalis*, flowering delayed by growth substances, 2248

- Calibration trials in fruit growing, 2187
- California—
 - apricot growing, 1280
 - avocado varieties, 3108
 - begonia and camellia culture, 3103a, 3103b
 - citrus growing, 994, 996
 - plant products from, 3025
- Callus formation, auxin requirements of, 1229
- Calonectria rigidiuscula* in cacao, 2174
- Camelina sativa*, an oil seed plant, 3043
- Camellia—
 - growing—
 - in California, 3103b
 - in England, 1860
 - seed oil, 959i, 3036
- Cameroons—
 - banana growing in, 3199
 - Stat. régionale de Nyombé, 2158
- Campanula*, hybridity selection in, 3103d
- Campden Fruit and Vegetable Preservation Res. Stat., A.R. 1949, 3410
- Canada—
 - breeders' list, 1205
 - climate, 2163
 - Forest Insect Survey, A.R. 1947, 1172
 - fruit varieties, 2163
 - Illustr. Stats, central Exp. Farm, Ottawa, Rep. 1938-1947, 2149
 - Minister of Agriculture, A.R. 1948/49, 2150
 - minor element deficiencies, 120
 - Nat. Res. Coun., A.R. 1948/49, 494f
 - pear growing, 543
 - vegetable growing, 2163
 - vine growing, 631
- Canadian Cttee on Food Preservation, 1131, 2126
- Canaigre roots, tannin from, 3438
- Canarium luzonicum*, Manila elemi from, 2081
- Canning—see also individual crops—
 - fruit—
 - varieties for, 1371
 - and vegetables, 1144
 - vegetables, 2121s
- Cantaloupe—see also Cucurbits—
 - canning, 2107
 - curly top virus, 2783
 - mosaic, 849, 1808g
 - nematode control, 3428
- Capitophorus fragariae*—see also Strawberry aphid—1550
- Capua reticulana*, 170
- Capnodis* beetles, 2549-2551
- Capsicum*—see—also Pepper, red—
 - frutescens*, 2786
 - guatemalense*, 2784
- Carbohydrate metabolism, 2194
- Carbon—
 - isotopic, 530
 - organic, estimation of soil, 2053
- Carbon dioxide fixation by green plants, 2232
- Cardamom—
 - disease and thrips control, 2079, 3420
 - oil, 3353
- Cardoon (*Cynaria cardunculus*), 1180
- Caribbean research 1948, Yearbook of, 472
- Carica papaya*—see Papaw
- Carnation—
 - Alternaria* blight, 1818
 - aphid control, 3411
 - bacterial wilt, 1818
 - diseases, 3103e
 - Fusarium* wilt, 1818
 - glasshouse culture, 3064
 - nutrition, 1879d
 - phosphate and potassium deficiency, 27
 - red spider, 348, 3411
 - Rhizoctonia* stem rot, 1818
 - soilless culture, 348
 - wilt diseases, 3065
- Carob, *Ceratonia siliqua*, seed, a creaming agent for *Hevea* latex, 423
- Carotene—see also individual crops under carotene and vitamin A—
 - biosynthesis, 1245, 2198
- Carpophilus dimidiatus* and *C. hemipterus*, 1941
- Carrigana, weed control under, 229
- Carrot—
 - blight (*Alternaria dauci*), 835
 - bolting, 250
 - boron deficiency, 2791
 - carotene content of, 265, 499, 2121c, 2121p
 - dehydration, 3438
 - dodder on, 2793
 - fly, 244, 1549
 - growing—
 - in Oregon, 959h
 - in Siberia, 802
 - irrigation, 810, 1654
 - Lygus campestris* on, 2792
 - nematode (*Heterodera carotae*), 836
 - root size, factors affecting, 1653
 - salt tolerance, 1604
 - seed—
 - disinfection, 805
 - growth substance and vitamin solution for soaking, 1652
 - production, 1654, 2792
 - spacing, 250, 1653
 - storage, 1178, 2121c, 3377
 - sugar content, 1194
 - thinning, 811
 - variety—
 - Imperida, 2790
 - trials in Sweden, 343s
 - weed control, 777, 778, 781, 782, 2692
 - yellow, 266
- Carya* in Mexico, the genus, 119a
- Cashew—
 - growing in India, 3420
 - minor element deficiency, 1200
 - processing, 3355
 - shell oil, 1150, 3355
 - transplanting, 2159
- Cassava (*Manihot utilissima*)—
 - growing in Tanganyika, 1166
 - investigations at Yangambi, 2157
 - mosaic virus, 144, 1166, 1190
 - streak, brown, 1190

SUBJECT INDEX

- Castnia* sp. on orchids, 1827
 Castor bean—
 diseases, 958
 flowers, nutrition affects sex of, 3039
 growing in Portuguese Africa, 3037
 harvester, a mechanical, 3427
 oil, 3037
 pollination, 3038
 seed production, hybrid, 1808f
 spray injury to, 2661c
Casuarina wilt, 2162
Cattleya—see also Orchid—
 mosaic, 963
 Pythium ultimum rot, 962
 susceptibility to ethylene, 353
 Cauliflower—see also Broccoli—
 cabbage root fly control, 2782
 caterpillars, control of, 1655
 damping-off, 1808s
 flea beetle control, 2782
 gall midge (*Cecidomyia* sp.), 2795
 heading of, 2795
 light-leaf spot (*Gloeosporium concentricum*), 827
 molybdenum deficiency, 838, 1637, 1639, 1640, 2770
 mosaic, 2794
 Mycosphaerella brassicicola on, 144
 seed—
 pod necrosis (*Alternaria* spp.), 1644
 production, 837
 storage, 2095
 turnip gall weevil on, 2877
 a virus disease of, 1643
 whiptail—see above, molybdenum deficiency
 Cawthron Inst.—
 A.R. 1948/49, 494d
 work at, 1302
 Cayuga Quadrangle, flora of, 501
Cecidomyia nasturtii, 2795
 Celery—
 blight, 2796
 bolting, 277
 composition, 247
 manuring, 249
 Sclerotinia sclerotiorum on, 3053n
 seed production, 277
 varieties, 1656
 weed control, 220
 Cell wall growth, 2207
Cenchrus brownii control, 2682
 Centipede grass, seed production of, 1878
Centrosema pubescens, as a cover crop, 417
Centrospora acerina, 1830
Cephalosporium—
 deformans sp. nov., 273
 diospyri, 1949
Ceratonia siliqua, 423
Ceratosomella fimbriata, 392, 1956
Cerbera manghas, fish poison from, 2655
Cercis canadensis, seed germination, 23
Cercospora—
 apii, 2796
 elaeidis, 3243
 Cercospora (continued)—
 musae, 1982
Cerotelium fici, 1566z
Ceutorrhynchus—
 assimilis, 828
 pleurostigma, 2877
 syrites, 3043
 Ceylon—
 coconut growing, 3220
 Coconut Quarterly, a new periodical, 2176
 economic plants of, 2085k
 Rubber Res. Bd, Rep. 1948, 1173
 Tea Res. Inst., A.R. 1948, 1191
 Charlock control, 2712c
 Chayote culture, 434, 1038
Cheimbatobia brumata—see also Winter moth
 —1516, 1517
 Cherry—
 aphid (*Myzus cerasi*), 1492
 bacterial canker, 2504
 bird control, 2605-2607
 boron deficiency, 2466
 breeding, 3430
 brown rot (*Sclerotinia fructigena*), 1469
 canning quality, spraying affects, 3432
 cover crops, 92
 Cylindosporium sp. on, 2172
 embryo culture, 1287
 frost—
 damage, winter, 671, 672, 2163
 resistance, 1316
 fruit—
 composition, 1350, 1360
 flesh: stone ratio, 2324
 fly (*Rhagoletis* spp.), 731, 732, 1503, 2172
 size, wax emulsions increase, 1350, 3427
 grafting, 77
 growth substance—
 content, 18
 treatment in autumn, 1360
 harvest, date predicted from temperature sum, 83
 leaf—
 curl virus of sour, 685, 2498
 -spot (*Coccomyces hiemalis*), 2613, 3432
 little cherry virus, 683, 1458, 3431
 manuring of sour, 685
 morello, cuttings, 2397
 "moria" decline, 2560
 mulching, 1351
 necrotic ring spot virus, 684, 776b
 nitrogen assimilation by bacterial symbionts, 1251
 oriental, flowering prolonged by growth substances, 3440
 ornamental, as virus indicators, 684
 pests favour winter injury, 672
 Pfeffingen disease, 678, 2499
 picking, basket for, 2386
 pollination, 1322
 ring spot virus—see above, necrotic
 rootstock(s)—
 mahaleb, 2163, 2342, 2343
 mazzard, 2163, 2342, 3432

- Cherry—rootstock(s) (*continued*)—
Prunus avium, 1316, 2343
 Wädenswil selection, 2172
Scolytus rugulosus, 2560
 shot-hole disease (*Clasterosporium carpophilum*), 2172
 sports, 81
 spray injury, 764
 temperature sums for, 83
 variety(ies)—
 Star, 554
 in U.S.A., 2391j
 Van, 554
 virus—
 diseases, 678, 683-685, 776b, 1458, 1459,
 2496, 2498, 2499, 3431
 indicator plants for, 684, 776b
 weevil, 2172
 wound dressings for, 1306
- Cheshunt—
 exp. Res. Stat., A.R. 1948 and 1949, 1174,
 3411
 compound, a soil disinfectant, 1713
- Chestnut—
 blight (*Endothia parasitica*), 1566f, 2515,
 2660g
 Chinese (*Castanea molissima*), 639
 dormancy of seeds prolonged by growth
 substances, 640
 floral biology of, 1410
 growing in Portugal, 118
 ink disease (*Phytophthora* spp.), 118, 151,
 1566o
 storage, 640, 3375
 stump eradication, 3440
 Tahitian (*Inocarpus edulis*), 1975
 weevil (*Curculio* spp.), 1499
- Chicory breeding, 267
- Chilli (*Capsicum frutescens*), a virus disease of,
 2786
- Chinese gooseberry, 485, 486
- Chloride content in citrus leaves, 1177
- Chlorine effect on plants, 528
- Chlorita flavescens*, 2579
- Chloroplasts, photochemical activity of, 1274d-
 1274f, 1274j
- Chlorosis—*see also particular plants*—
 of fruit trees, waterlogging causes, 2487
 lime-induced—*see also* Iron deficiency—
 659, 660, 823, 2467
- Choco—*see* *Sechium edule*
- Chondrus crispus*, 339
- Chrozophora plicata*, seed oil from, 3354
- Chrysanthemum—
Ascochyta chrysanthemi on, 352
Cicadella sp. on, 3069
cinerariaefolium—*see* Pyrethrum
 crown gall of, 1230
 diseases, 3067
 gall midge, 3070
 manuring, 350, 3066
 mineral deficiency in, 1174, 3411
 mulching, 2148
 nematodes, 964, 1819
- Chrysanthemum (*continued*)—
 photoperiodic reaction, 2220
 root rot, black (*Thielaviopsis* sp.), 3415
 soil sterilization, 3411
 spring flowering, 349
 stunt mottle virus, 351, 3068, 3440
 variety(ies)—
 new, 987b, 987e
 trials at Wisley, 960
- Chusquea abietifolia*, flowering of, 2080
- Cicada control, 198c
- Cicadella atropunctata*, 3069
- Cider—*see also* Apple—
 making, 451, 2127, 3390b, 3390c, 3390d
 sickness, 2472
- Cinchona—
 budding, 1124
 clone identification, 1999
 grafting, 1124
 growing in Cameroons, 3217
 manuring, 1971
 rootstocks, 3217
- Cineraria—
Alternaria leaf spot, 965, 1820
 flower bud initiation, 7
- Cinnamonum camphora*, 3352
- Cinnamon, essential oil, 490
- Cirsium arvense* control, 1571
- Cistaceae*, symbiotic fungus in, 1879a
- Citrange(s)—*see also* Citrus—
 as citrus rootstocks, 1007
 floral biology, 1010
- Citric acid content of citrus and deciduous
 fruit, 660
- Citropsis* spp., cortical tracheids in, 1901
- Citrullus* seeds, urease function in, 959w
- Citrus—*see also particular citrus fruits*—
 ant control, 1028
 black fly (*Aleurocanthus* sp.), 1932, 3153-
 3155, 3439
 black spot (*Phoma citricarpa*), 1928, 3149
 blue mould (*Penicillium italicum*), 1026, 3152
 boron toxicity, 1909, 3138
 breeding, 1900
 brown rot (*Phytophthora* sp.), 385, 3150
 budding, 1006, 1907
 by-products, 456, 2108
 carbon dioxide content of air in groves, 3127
 chlorosis, 1920
 collar rot, 3147
 cuttings, 1006, 1907
 disease in Zanzibar, 1200
 dormancy in, 996
 foam disease, 1926
 foot rot (*Phytophthora* spp.)—*see below*,
 gummosis
 frost—
 damage, 1020, 3143, 3144
 protection, 1021, 1178, 1912, 1913
 fruit—
 colouring, 996
 composition, 3128
 drop, 996, 1195, 2159, 2160
 flies, 1975, 2458

SUBJECT INDEX

Citrus—fruit (continued)—

- granulation, 996
- growth, 3128
- maturity, 996
- naringin in, 3164, 3165
- oxidizing enzymes of, 3152
- quality, 3128
- rots—*see also above*, black spot, blue mould and brown rot—3372
- size, 3128

fulgorid (*Oremis* sp.) on, 3156

fumigation, 1045c

grafting, 1905, 1906

"greening disease", 1195

growing—

- in California, 994, 996
- in French North Africa, 3114
- in India, 993
- in Israel, 1899, 3112
- in Italy, 3109
- in Jamaica, 997
- in Morocco, 992
- in North Africa, 3114
- in Rio Grande Valley, 3113
- in Russia, 1008
- in Trinidad, 996, 3110
- in U.S.A., 1938

growth, of tree, 375

grubbing, 3168

gummosis, 384, 995, 1925, 1930, 3146

intercropped with passion vine, 1911

iron deficiency, 660, 1920, 3139

irrigation, 375, 376, 1015, 1177, 1178, 1912, 1918, 3132

juice—

- manufacture, 2091
- storage, frozen pack, 2102

leaf—

- analysis, 660
- chloride content, 1177

leprosis, 1022

manganese deficiency, 3137, 3139

manuring, 996, 1016, 1918, 2159, 3112

marketing, 2121 l, 3193g

mealy bug, 1968c

mineral deficiency in, 653, 1192, 2160

mulching, 3111

nematodes, 384, 1930, 3163

nitrite injury to seedlings, 1017

nitrogen nutrition, 3135

packing, 1937, 2091, 3167

Papilio spp. on, 1931, 1933

peel, pectin extraction from, 2108

pest control, 1931, 3193b, 3193i

phosphorus deficiency, 1014, 1919, 3140

Phytophthora root rot—*see above*, gummosis

planting, explosives for, 2158

polyembryony, 1006, 1010

potash deficiency, 1014, 1919, 3133

propagation—*see also above*, budding, cuttings, etc.—1006, 3118

pruning, 3112, 3143

psorosis, 1187

pulp, silage of, 456

Citrus (continued)—

quick decline—*see also below*, tristeza—377, 1023, 1909, 1968d, 3145

red spider, 3193e

reticulata—*see* Orange, khasi

root—

- cuttings, 1006
- growth, 375, 3119

rootstock(s)—

in Argentina, 378, 3124

in Ceylon, 1908

citrange, 1007

Citrus megaloxycarpa as a, 1903

—dwarfing, 1007

fruit composition and size affected by, 3128

in Liberia, 1907

lime, 1007

in Nigeria, 487

Severinia buxifolia, 1007

shaddock, Cuban, 1007

sour orange, 3110

trifoliolate orange, 378, 379, 1007, 3123

rust mite (*Phyllocoptruta* sp.), 1934, 3157

salt tolerance, 3138

scale—

cottony cushion (*Icerya purchasi*), 3159

insect control, 1029, 1197, 1931, 3158-3160

mussel (*Lepidosaphes pinnaeformis*), 1197

red (*Aonidiella aurantii*), 1029, 1931, 3160

spray residue related to infestations of, 1934

scaly bark, 1022

Sclerotium bataticola, 3151

seed germination, 1006, 1907, 3121, 3122

Septoria spot, 3147

soil—

management, 376, 3126

sickness, 3120

water-repellant, 1016

spray—

injury to, 1923, 1924, 3161

residue, 1934, 2650, 2653

stem-pitting virus, 1922

storage quality, vitamin C content related to, 1000

temperature requirements, 996

thrips control, 1031

tip-burn, 1919

transplanting, 375, 1907

tristeza disease—*see also above*, quick decline—378, 1027

vitamin C content, 1000

weed control, 2159, 3141

windbreaks for, 3142

xyloporosis, 1922

Cladosporium—

carpophilum, 2511

cucumerinum, 2803

effusum, 714

fulvum, 1698

herbarum, 700

Clary vernalization, 966

- Clasterosporium*—
carophilum, 144, 2172
 leaf spot of stone fruit, 1541
- Clausena anisata*, an essential oil plant, 1092
- Clematis*—
 grafts, *Rhizoctonia solani* in, 2147
 varieties, German, 3103h
- Clemora smithi*, 2063, 2064
- Climate—*see also* Meteorology and Weather—
 in Belgian Congo, 3363g
 in British Commonwealth, 1220
 of Canada, 2163
 micro-, of plantation crops, 3200
 vegetation affects, 263
- Clinodiplosis oculiperda*, 169
- Cloche—
 gardening, 535g
 non-drip type of, 1267
- Clove—
 growing—
 in India, 3420
 in Zanzibar, 2000, 3218
 rootstocks, 3413
 'Saissetia' sp. on, 3219
 "sudden death" disease, 1200, 2000, 3413
- Clubroot—*see* particular crops and *Plasmodiophora brassicae*
- Cnephasia longana*, 1816
- Cobnut—*see also* Filbert and Hazel—
Sclerotinia rot, 2559
 nut weevil (*Balaninus nucum*), 2559
- Coccoloba* in Cuba, the genus, 435c
- Coccomyces hiemalis*, 2613
- Coccus*—
hesperidum—
 as greenhouse pest, 1873
 on citrus, 1931, 2173, 3193h
- Cochin State, coconut growing, 2001, 2007, 3224
- Cochylis ambiguella*, 1180
- Cockchafer control—*see also* White grubs—
 166, 167, 184, 725
- Cocoa—*see* Cacao
- Coconut—
 ant control, 401
 breeding, 1058
 bronze leaf wilt—*see also* "unknown" disease—1057
 coir, 2111
 Coreid bug on, 401
 cover crops, 2002, 2003
 dwarf, 3222
 growing—
 in Ceylon, 3220
 in Cochin State, 2001, 2007, 3224
 at high altitudes, 3221
 in India, 1059
 in the Philippines, 1056
 in South America, 3222
 gur from, 2109
 leaf rot, 1061
 manuring, 1060, 1192, 2002-2005, 3363o
 nut fall, premature, 401, 2008
 oil extraction, 454
- Coconut (*continued*)—
 ovary of, 2085a
 palm beetle (*Oryctes* sp.), 1062, 3223
 potassium deficiency, 2007
 products, 2109, 2111, 2121d
Rhynchophorus sp. on, 3223
 soil(s)—
 moisture, conservation of, 2002
 and root disease, 3224
 stick insect (*Graeffea* sp.), 1975
 tapering disease, 2005
 "unknown" disease, 2006, 2159, 2160
 varieties, classification of, 1063
 wilt disease, 2007
- Codling moth—*see also* Apple—
 control—
 biological, 1513
 by DDT, 188, 1511
 by various chemicals, 757, 2582-2584, 2619
 warnings, 1423
- Coelaenomenodera* sp. on oil palm, 2032
- Coffea*—
arabica, 1065, 2010, 3225, 3433
robusta, 2011, 2012
- Coffee—
 berry borer, 403, 1068, 1069
 biennial bearing, 1065
 black bean disease, 2017
 Board, Indian, A.R. 1947/48, 478
 breeding, 478, 2157, 3363p
 copper content, 435f
 cover crops, 478, 2011
 cuttings, 478, 2012, 3226
Fusarium wilt, 3230
 growing—
 in East Africa, 2010, 3225
 in India, 1065
 in Indonesia, 402, 2011
 in Uganda, 3434
 growth and bearing habit in Southern India, 1065
Hemileia vastatrix on, 478, 1071
 irrigation, 3433
 leaf—
 analysis, 3229
 fall, control of, 1071
 miner (*Perileucoptera coffeella*), 1070
 manuring, 478, 1064, 1066, 1971, 2015, 2016, 3433
 mulching, 1064, 1066, 2014, 3227, 3228, 3433
 pests and diseases, 1130e
 planting, 1064, 3433
 processing, 3232
 pruning, 478, 1064, 2157, 3433
 research—
 in Colombia, 2009
 Stat., Lyamungu—
 A.R. 1947, 3433
 work of, 2010
 root diseases, 1067
 shade trees for, 1032, 2013, 2157
 soil—
 conservation, 3227, 3412
 management, 3433

- Coffee (*continued*)—
 stem borer, 478
Thielaviopsis sp. on, 3231
 yellowing, 3229
 yields, 3433
- Coir from coconut, 2111
- Colchicine—
 a bibliography on, 1235
 extraction and purification, 1799
 growth substance treatment combined with,
 1808e, 2256
 substitutes for, 3031
 in tragacanth gum, 35
 treatment—
 of *Hemerocallis fulva* and *Gloriosa rothschildiana*, 2255
 of melon, 2814
 of onion, 1808e
 of peach, 3440
 a review, 2254
 of seed, 2253
- Cold—*see* Frost and Storage, cold
- Colchicum speciosum*, 1799
- Colletotrichum*—
atramentarium, 144, 2909
camelliae, 1191
circinans, 1667
 sp.—
 on melon, 2817
 on orange, 1025
phomoides—*see also* Tomato anthracnose,
 872
truncatum, 2760
- Colombia, coffee growing, 2009
- Colonial—
 Insecticides Cttee, A.R. 1948/49, 1175
Plant and Animal Products, a new periodical,
 3447
 Products—
 Advisory Bureau, 3447
 Res. Coun., A.R. 1948/49, 1176
- Colorado beetle—*see* Potato
- Colour—
 charts for biologists, 93
 determination, photometrical, 1866
- Compost—
 analysis, 28
 from grape pomace, 27
 for mushroom growing—*see also* Mushroom,
 media—2976
 from peat, 1347
 from seaweed, 1259
 from town wastes, 809, 2303r
- Congo, Belgian—*see* Belgian Congo
- Conifer seedbeds, weed control in, 2707
- Coniothyrium coniella*, 2512
- Connecticut Tobacco Substat., Windsor, A.R.
 1946, 1201a
- Conopia tipuliformis*, 164
- Conotrachelus nenuphar*—*see* Plum curculio
 and Peach, plum curculio
- Contarinia—
humili, 331
nasturtii, 2839
- Contour planting, 585
- Copal bearing trees in Belgian Congo, 2085h
- Copper—
 content of coffee, 435f
 deficiency—
 in apple, 486, 2468-2470
 in Denmark, 1424
 in maize, 864
 in onion, 855
 in pear, 657, 2470
 in potato, 903, 1731
 determination, 1274s, 2265
 excess in *Hevea* soils, 3259
 fertilizers, 1424, 3010
 fungicides—*see* Sprays, fungicides
 toxicity, soil, 33, 658, 3259
- Cordia macrostachya* control, 1594c
- Corhormone as growth substance and poly-
 ploidizing agent, 2252
- Coriander diseases, 958, 3420
- Corm, rhizome and tuber storage, 438
- Cornus*—
mas, growing in Russia, 1381
 varieties, Hungarian, 2452b
- Corozo oleifera*, an oil-bearing palm, 474
- Corticium*—
salmonicolor, 2039
solani, 2076, 2920
stevensii, 3186
- Corynebacterium michiganense*—*see* Tomato,
 bacterial canker
- Coryneum*—
beijerinckii, 150
 blight of apricot and peach, 2148
- Corythucha arcuata*, 3102
- Cosmopolites sordidus*—*see* Banana borer
- Costa Rica—
 Min. Agric. and Ind. of, 2nd Rep., work of,
 3412
 sugar cane growing, 1106
- Cotoneaster*—
acutifolia, a pear rootstock, 2339
 cuttings, 346
- Couch grass control, 3431
- Couma rigida*, chicle gum from, 2041
- Coumarouna* spp., coumarin from, 3356
- Covent Garden Laboratory, 1133
- Cover crops—*see also* Manuring and individual
 fruit or plantation crops under manur-
 ing—
 for apple, 92, 484, 2368, 2369
 for cherry, 92
 for coconut, 2002, 2003
 for coffee, 478, 2011
 for *Hevea*, 417
 insecticide effect on orchard, 763
 for limes, 3111
 manuring, 1960
 for oil palm, 1185
 orchard, 496, 586, 763, 1352
 for pear, 92
 for plum, 92
 for sugar cane, 1171, 3289
 for tea, 429

- Cover crops (*continued*)—
 for tung, 1960
 for vine, 2445
- Coyo (*Persea* sp.) as avocado rootstock, 1887
- Crabgrass (*Digitaria* spp.) control, 231, 2685
- Cranberry—
 cutworm (*Hyppa* sp.), 2592
 frost damage to, 1184
 fruit worm (*Mineola* sp.), 2149, 2588
 growing in Canada, 476
 weed control, 1184, 2149
- Creosote bush, nordihydroguaiaretic acid in, 959j
- Cress—
 ascorbic acid synthesis in seedling, 48h
 polyploid, 2253, 2254
 seed size related to yield, 2717
- Cricket control, 2745
- Crioceris asparagi* and *C. duodecimpunctata*, 1619
- Cronartium ribicola*, 143, 1483
- Crotalaria* spp. as cover crops, 429, 2003
- Crown gall (*Bacterium tumefaciens*)—
 of bean, 2733
 of blackberry, 2733
 of carrot, 142, 2213
 of chrysanthemum, 1230
 of fruit trees, 138
 of rose, 979
 of sunflower, 48k, 1229, 2733
 of tomato, 1533, 2733
- Crucifers, *Phoma lingam* on, 2797
- Cryptocarya pleurosoma*, cryptopleurine from, 3031
- Cryptorhynchus mangiferae*, 410
- Cucumber—*see also* Cucurbits—
 barley strips for shelter, 2801
 beetle, spotted, 2807
 compost for, 3411
 downy mildew, 2802
 drainage, 3411
Fusarium diseases, control of, 25
 glasshouse culture of, 1660
 grafting, 25
 growing—
 in New Zealand, 270
 in Siberia, 802
 manuring, 2800, 3431
 mite (*Tyroglyphus* sp.), 1597
 mosaic, 251, 1808k, 2799, 2919
 nematodes, 842, 2804
 pickling, 2800
 scab (*Cladosporium* sp.), 2803
 seed—
 disinfection, 842
 germination, 17
 production, 271, 3431
 sex differentiation in, 519
 soilless culture, 272
 varieties—
 Ohio MR17, 2799
 for Syria, 2718
- Cucumis*—
anguria—
 flower biology, 2808
 photoperiodic reaction and N supply, 273
 sativus, virus diseases, 274
- Cucurbita*—*see also* individual species under common name—
ficifolia, grafting, 1659
maxima, 2807
moschata, 850, 851
pepo—
 floral biology, 2806
 fruit colour, genetics of, 268
- Cucurbits—*see also* individual crops—
 downy mildew, 1612, 2802
 floral biology, 2078, 2805, 2806, 2808
 fruit—
 phosphatase activity in, 1657
 size and vitamin B, 294
 pickleworm control, 3417
 a review, 1658
 spray injury to, 2807
- Curare alkaloids, 2121j
- Curculio* spp. on chestnut, 1499
- Curcuma longa*, 1128
- Currant—*see also* Black and Red currant—
 boring beetle, buprestid, 164
Conopia tipuliformis on, 164
 cuttings, 636
Dichelonyx and *Malacosoma* spp. on, 1172
 growing—
 in Canada, 1373
 in New Zealand, 2395
 in Scotland, 604
 leaf spot (*Pseudopeziza ribis*), 144
 mouse damage to, 1529
Plowrightia ribesia on, 144
 storage of fresh, 3373
 temperature sums for, 83
 varieties in Germany, 1288
- Curvularia maculans*, 2039
- Cuscuta*—
arvensis on carrots, 2793
inopinata, 972
 sp(p.)—
 seed germination and host relationships in, 1574
 on vine, 2609
 as a virus vector, 2793
- Cuttings—*see also* particular crops and plants—
 leaf, 21
 mineral deficiency affects rooting, 527
 mist humidification favours rooting of, 1269
 of ornamentals, 2147, 3058
 planting machine for, 2296
 root, 1006
 rooting media for, 346
 shading, 3123
 stratification of, 636
 vermiculite for rooting—*see* Vermiculite
- Cutworm control, 1808r, 1814, 2746
- Cyamopsis tetragonoloba*—
 mucilage from, 1151, 2809
 seed, a creaming agent for *Hevea* latex, 423

SUBJECT INDEX

- Cycadaceae* of the Sudan, 3391
- Cyclamen*—
 dodder on, 972
 mite (*Tarsonemus pallidus*), 359, 1873
persicum, 1842
- Cycloconium oleaginum*, 144, 701, 2513, 2514
- Cydia*—see also *Laspeyresia*—*nigricana*, 2739
- Cylindrocladium scoparium*, 149
- Cylindrosporium* sp.—
 on apple, 148
 on cherry, 2172
- Cynara cardunculus*, 1180
- Cyperus* spp.—see Nutgrass
- Cyphomandra betacea*, tree tomato, 1967
- Cyprus*—
 Dep. Agric., A.R. 1948 and 1949, 473, 2152
 olive growing, 1284
- Cytochrome, 3053i, 3053m
- Cytospora cincta*, 2462
- Cytosporina* sp. on apricot, 1178
- Czechoslovakia—
 hop growing, 2987
 plum rootstocks, 72
 vegetable growing, 1598
- Dactylum*—
dendroides, 2978
 "mildew" of mushroom, 1186
- Dacus*—
dorsalis, 1882
 spp., control of, 1975
- Daffodil—see also Bulb(s) and Narcissus—
 acclimatization in Australia, 3103f
 basal rot (*Fusarium bulbigenum*), 973
Botrytis rot, 971
 weed control, 230
- Dahlia*—
 tubers, inulin, alcohol, fructose and phytin
 from, 953, 3103g
 variety trials at Wisley, 960
 virus diseases, 3078
- Damping-off—
 in beans, 1635
 in cabbage, 1808s
 in cauliflower, 1808s
 in eggplant, 1963
 in flowers, 1814
 in lettuce, 845
 in red pepper, 1963, 2788
 in vegetable seedlings, 2172, 2734
- Damson—
 growing in England, 1369h
 variety Westmorland, 1293
- Dansk Gartnerforening, Yearbook 1949, 2153
- Daphnandra* spp., alkaloids from, 2121b, 3030
- Daphne*—
mezereum virus disease, 2147
 a virus disease of, 3093
- Dasyneura brassicae*, 828
- Datana integerrima*, 1172, 2537
- Date—
 bunch covers, 1939
 composition, 456
Fusarium disease of, 1940, 3169
- Date (continued)—
 growing in Queensland, 1187
 pest control, 1941
 propagation, clonal, 1185
 storage, 437
- Datura*—
 grafting, 921
 spp., pollination of, 3032
stramonium alkaloids, 48g
- DDT—see Sprays
- Deer repellent, 2603
- Deficiency—
 boron—see Boron deficiency
 copper—see Copper deficiency
 iron—see Iron deficiency
 magnesium—see Magnesium deficiency
 mineral—
 in chrysanthemum, 3411
 in citrus, 653, 1192
 diagnosis of, 91, 121, 925, 2151, 2266
 in England, 1605
 in fruit trees, 121, 122, 473, 2151
 injections to cure, 499
 in lily, 1849, 1850
 in mango, 1085
 rooting of cuttings affected by, 527
 in tobacco, 925, 1786, 3011, 3012, 3015
 in vine, 1177
 minor element—
 in Canada, 120
 in fruit trees, 653
 molybdenum—see Molybdenum deficiency
 nitrogen—see Nitrogen deficiency
 potassium—see Potassium deficiency
 sulphur, 126
 zinc—see Zinc deficiency
- "Degussa" soilless culture method, 506
- Dehydration—see also individual crops—with
 infra-red rays, 2992, 2993
- Delayed foliation, 132, 1077, 1198, 1430-1432,
 2137
- Delphinium—
Diplodina sp. on, 3071
Fusarium stem canker, 967
- Denmark—
 Cttee Veg. Var. Trials, A.R. 1947 and 1948,
 2155
 copper deficiency, 1424
 diseases and pests, 2453
 fruit marketing, 2391a
 Seed Testing Stat., A.R. 1948/49, 3053g
- Dermolepida albobirtum*—
 control, 1120, 1171, 3327
 in sugar cane, 3327
- Derris—
 cuttings, 774
 growing in the Caribbean, 472
 harvesting, 1562
 interplanted with *Hevea*, 417
 ridging, 1562
 root, insect fauna of, 2660m
- Development, rate of, 2303f
- Diabrotica 11-punctata*, 2807
- Diachus auratus*, 2557

SUBJECT INDEX

- Diaprepes abbreviatus*, 2146
Diarthronomyia chrysanthemi, 3070
Diaspis leperii, 2601
Diatraea saccharalis on sugar cane, 1192, 2146, 3324, 3363b
Dichapetalum cymosum, an insecticidal plant, 1553
Dicheirinia archeri, 773
Dichelonyx spp. on currant, 1172
Dichrostachys nutans control, 1593
Dicyphus minimus, 2876
Didymella lycopersici, 1174, 3411
Digitalis—
 diseases, 958, 3440
 purpurea, salt tolerance of, 1604
Digitaria spp.—see Crabgrass
Dinoderus minutus, 3349
Diospyros spp.—see also Persimmon—
 in Brazil, 3177
 plumbagin and antibiotics from, 3176
Diplocarpon earliana, 650
Diplodia natalensis, 3148, 3193f
Diplodina delphinii, 3071
Disease(s)—see also specific diseases and hosts—
 birds spread, 2524
 of bulbs, 987f
 control—
 by antibiotics, 2610, 2612, 2613, 2660t, 2803, 3332
 in Germany, 2660r
 in Holland, 183
 of foliage plants, 3067
 forecasts, 2455, 2456
 of fruit, 2454
 in Great Britain, 645
 in India, 2138
 losses caused by, 1420, 1422
 of ornamental plants, 3057
 and pest control—
 in orchards, 182
 in rootstock nurseries, 2615
 and pests in Denmark, 2453
 phenology, 2732
 resistance, nature of, 2303b
 in Scotland, 1421
 of stone fruit, 2661d
 in Texas, 2660n
 in U.S.A., pathogenic and nutritional, 646, 647, 2454
 of vegetables, 815, 2454, 3054 l
 water congestion affects susceptibility to, 6
Ditton Laboratory, East Malling, 1133
Ditylenchus—
 destructor, 1847
 dipsaci, 360
Dizygomyia cepae, 2827
Djenkolic acid, 1049
Dodder—see *Cuscuta*
Dominica, Dep. Agric., A.R. 1947, 2154
Dominican Republic, sugar cane growing, 2045
Doralis frangulae and *D. rhamni*, virus vectors, 1755
Dormancy—see also individual plants and
 Growth substances—seed, 17
Dothidella ulei, 3252, 3253
Double working—see individual tree fruits
 under stem builders
Drainage, 42, 585, 1114
Drought—
 edaphic, 814
 injury—
 to fruit trees, 666, 1452
 to vine, 1451
 resistance—
 physiology of, 2217
 in sugar cane, 2049
Drug plants—see Medicinal
Drying—see Dehydration
Duboisia spp. growing in Australia, 1177, 1178
Dulcitol from *Euonymus* spp., 959c
Dust(ing)—see Sprays
Dwarfed trees, training artificially, 981
East African Agric. and Forestry Res. Organ.,
 A.R. 1948, 3413
East Malling Res. Stat.—
 A.R. 1949, 3414
 Bradbourne fruit garden, 2306
Ecuador, cacao growing, 1052, 3210
Edinburgh and East of Scotland Coll. Agric.,
 A.R. 1948 and 1949, 3415
Eggplant—
 bud-worm (*Phthorimoea* sp.), 841
 damping off, 1963
 growing in India, 840
 heterosis in, 1962
Eichhornia crassipes—see Water hyacinth
Èire—
 Minist. Agric., A.R. 1947/48 and 1948/49,
 1201c, 3448b
 tobacco growing, 2997
Elaeis—
 guineensis—see Oil palm
 melanococca, 412
Electrical—
 current as insect barrier, 1543
 soil—
 heating, 2813
 sterilization, 1268
Electrolysis to reduce nicotine content of
 tobacco, 3024
Electronic heating for seed disinfection, 1542
Embryos, culture of fruit tree, 1287
Empoasca fabae, 2962
Enarmonia pomonella, 737
Endothia parasitica on chestnut, 1566f, 2515, 2660g
England—see also particular areas and Great
 Britain—
 camellia growing in northern, 1860
 lilies for northern, 1848
 a mineral deficiency survey, 1605
 New Zealand hemp growing, 1805
 peach growing, 1281
 tomato growing, 2845
 vine growing, 462, 2417
Entomology, bibliographies of, 198a, 198k
Ephesia figulilella, 198d

SUBJECT INDEX

- Epilachna*—
 28-punctata, control, 1609, 1610
 varivestis—see Bean beetle, Mexican
- Epimadiza nigra*, 1197
- Epipolaeus caliginosus*, 331
- Epitrix cucumeris*, 2962
- Eriophyes*—
 avellanae, 1549
 essigi, 2578
 sp. on litchi, 3171
 vitis, 2579
- Eriosoma lanigerum*—see Aphid, woolly
- Erwinia amylovora*, 1198, 2506
- Erysiphe*—see also particular crops under mildew
 graminis, 1533
 polygoni, 259, 1623, 2831
- Erythrina* spp. as diseases of shade trees, 433, 1053
- Erythroneura comes*, 1505
- Erythrophleum* spp., alkaloids from, 3389
- Essential oil—see Oil, essential
- Ethylene injury—
 to flowers, *Diplocarpon rosae* causes, 1874
 to orchids, 353
- Eucalyptus—
 growing in Gt Britain, 1861
 as a medicinal plant, 1178
 oil, 3385
 spp., rutin from, 1177, 1801
 windbreaks, 3142
- Eudemis*—see Vine eudemis
- Euonymus* spp.—
 cuttings of, 346
 dulcitol from, 959c
- Eupatorium pallescens*, 2063, 2064
- Euphorbia*—
 kanalensis, fish poison from, 2655
 spp.—
 as oil plants, 3354
 as rubber plants, 3265
- Euphoria longana*, 1034
- Euphyllura olivina*, 1506
- Eurytoma*—
 orchidearum, 1827
 spp. on *Prunus*, 1523
- Evergreens—
 in New Jersey, 1855
 transplanting, 1863
- Evesham Valley, England, fruit growing, 536
- Excoecaria agallocha*, fish poison from, 2655
- Exobasidium vexans*—see also Tea blister
 blight—430, 1191, 2069
- Explosives, use of—
 for ant destruction, 2295
 for bamboo lifting, 2077
 in the orchard, 1213, 2158, 2295
 in soil cultivation, 36
 in terrace culture, 37
- Fasciation in pineapple, 2035
- Feijoa—
 growing in New Zealand, 485
 iodine content, 2128
 varieties in California, 1964
- Fence(s)—
 farm, 532, 2294
 post preservation, 41, 535c, 2382
- Fennel essential oil, 959p
- Fern(s)—see also particular genera—
 genera, selection of type-species of, 1879g
 sterility in, 3059
- Fertilization—see Pollination
- Fertilizer(s)—see also Manuring and separate crops—
 chart, 1250
 injection of liquid—see also Manuring fruit trees by soil injection—499
 machinery for applying, 531, 2729
 placement in row crops, 2278
 for seeds, 1258
- Fibre plants—
 Agave sisalana—see Sisal
 Asclepias syriaca, 336
 in Belgian Congo, 2157
 Boehmeria spp., 405, 942
 of East Africa, 2020
 Furcraea spp., 2162
 henequen, 3233
 in Jamaica, 2159
 kapok (*Ceiba* sp.), 3234
 kenaf (*Hibiscus cannabinus*), 2021
 Manila hemp (*Musa textilis*)—see Hemp, Manila
 New Zealand hemp (*Phormium tenax*), 943, 1805
- Fibre production, world, 461, 3233
- Fig—
 black fly (*Lonchaea* sp.), 733, 1504
 caprification, 2352
 dried, composition of, 456
 fruit—
 maturation, hormone effect on, 1330, 1331
 shape, climate affects, 3104
 growing—
 in Algeria, 100e, 2309, 2310
 in Russia, 59, 555
 in Victoria, Aust., 544
 parthenocarpy, 1330, 1331, 2352
 paste, insect filth in, 457c, 2121u
 root system, 62
 rust, 1566z
- Fiji—
 Dep. Agric., A.R. 1948, 1201b
 weeds of, 241b
- Filbert—see also Cobnut and Hazel—
 blight (*Xanthomonas corylina*), 690
 brown rot, 1469
 manuring, 3440
 pest control, 3431
- Filing horticultural references, 1274z
- Finland, blueberry varieties, 1378
- Fish poisons from plants, 2655
- Fixing solutions for phytopathological specimens and fruits, 2291
- Flacourtia inermis* cultivation in Malaya, 3357
- Flavonoid pigments, 2202, 2203
- Flea beetle—see particular crops

- Flooding vegetables for *Sclerotinia sclerotiorum* control, 816
- Flora—
 of Anglo-Egyptian Sudan, 3391
 of Cayuga Quadrangle, U.S.A., 501
 of Guam, 1047
 of Israel, 2
 of the Kuweit, Arabia, 435a
 of the Mediterranean, 1274t
 of Pakistan, 3193d
 of Switzerland, mapping of the, 1274 l
 Florealp botanical garden, Champex, 2183
 Floss from *Asclepias syriaca* seed, 336
- Flower(s)—
 cut—
 growth substance hastens flowering, 344
 machine for bunching, 2298
 prolonging life of, 344, 3061, 3062
 storage, 438
 transport of, 344, 3060
 cutworm control, 1808r
 damping off in, 1814
 marketing, 374j
 nematodes of, 3063
 pest control, 1184, 1814
 seed production in Malta, 1183
 soilless culture, 39
 variety trials in Denmark, 2153
 vascular bundles of, 2225
- Flowering, gregarious, 2080
- Fluorine—
 injury to gladiolus, 374f, 1843
 in soils and plants, 26
- Folic acid, crown gall inhibited by, 142
- Fomes—
lignosus, 417
 spp. on coffee, 1067
- Food—
 and agric. Organiz., Oilseed Mission for Venezuela, Rep., 474
 Preservation, Canadian Cttee on, 1131, 2126
- Forcing—
 bulbs, 3076
 tulip, 2153, 3089
- Forest Insect Survey, Canada, A.R. 1947, 1172
- Forestry Comm., A.R. 1948/49, 3416
- Fork, standardized specification of potato, 2299
- Forsythia—
 cuttings, 1856
 spp. for waste land, 2143
- Fractional replication in factorial experiments, 2303w
- Frameworking—
 apple, 1369j, 2331
 citrus, 1905, 1906
 fruit trees, 1369k
 pear, 2506
- France—
 apple—
 juice production in, 457e
 and pear rootstocks, 2334
 fruit growing, 2136
- France (*continued*)—
 olive growing, 51, 2325
 d'Outre-Mer, Off. Rech. sci. colon., Reps 1946 and 1947, 475
 safflower growing, 949
 vine growing, 2419
- Frankliniella*—
californica, 2825
occidentalis, 1670
- Fredericton Dominion exp. Stat., N.B., Rep. 1937-1947, 476
- Freesia culture, 974
- Freezing—
 chamber mounted on microscope, 2482
 quick—*see* Storage, frozen pack
- French Colonies, research institutes in, 475
- Frost—
 damage—
 to apple, winter, 567, 1433, 1434, 2333, 2480
 to avocado, 1888, 3105
 to bean, 2758
 to beetroot, 2482
 to blueberry, 1436
 to cherry, winter, 671, 672, 2163
 to citrus, 1020, 3143, 3144
 to cranberries, 1184
 to fruits, 545, 2479, 2481, 2482
 to fruit trees, 130, 545, 671
 to guava, 3105
 to papaw, 3105
 to peach, 671
 to pear fruit, 2479, 2481
 to pear, winter, 671, 2480
 pruning affects, 130
 to raspberry, 1383, 2479
 to rose, 3100
 to sapote, 3105
 to strawberry, 2479
 to subtropical fruits, 3105, 3106
 to sugar cane, 1099
 to tomato fruits, 2482
 to vine, 111, 1445-1448, 2478, 2660p
 to walnut, 131, 2479
- protection—
 of almond, 1178
 of apricots, 673
 of avocado, 1889
 of citrus, 1021, 1178, 1912, 1913
 by covering with soil, 1444
 by delaying flowering, 3427
 by fan, 1177, 1178, 1441, 1442
 by fog, 667, 1438-1440
 of fruit trees, 1441, 1442, 2483, 3427
 by irrigation, 1386, 1437, 1441, 2373, 2483, 2484
 by orchard heater, 1021, 1443
 of potato, 1439
 by radiant heat, 129
 of strawberry, 129, 1386, 2484
 of tea, 3344
 of tomato, 129
 of vine, 667, 669, 670, 1443, 1444, 2172
 radiation, 2477

SUBJECT INDEX

Frost^v(continued)—

- resistance—
 - in apple—
 - varieties, 1318, 1435
 - rootstocks—*see* Apple rootstocks, hardy
 - in cherry, 1316
 - in guava, 2022
 - physiology of, 668
 - in ornamental plants, 1811, 1812
 - in pear, 1318
 - in pecan, 1412
 - in plum, 1318
 - in raspberry, 1184
 - in stone fruit, 2321
 - in tung, 1044
 - in vine, 1406
 - in walnut, 643, 1413
- wind, 2477
- Frozen pack—*see* Storage, frozen pack
- Fructose—
 - C¹⁴ labelled, 2303u
 - diphosphate, breakdown of, 521
- Fruit—*see also individual fruits*—
 - breeding—
 - in Italy, 2315
 - at Long Ashton, 2313
 - at Max Planck Inst., 2457
 - at Minnesota Univ., 1286
 - polyploidy in, 1372
 - in Sweden, 2145, 2314
 - canning, 1144
 - composition, 2105
 - consumption in U.S.A., 1142
 - deciduous—
 - delayed foliation in, 1077, 1430
 - growing—
 - in Cyprus, 473
 - in East Africa, 2137
 - at high altitudes, 1180
 - in tropics, 1077
 - dehydration and drying, 2103
 - development "in vitro", 503, 1214, 1215
 - dietetic value of, 2104
 - diseases, 2454
 - dried, water relations of, 2121g
 - drop retarded by growth substances, 98, 400, 486, 499, 1180, 1195, 1357, 1359, 1916, 2093, 2159, 2160, 2379, 2667, 2867, 3214
 - fixing and preserving solutions for specimens of, 2291
 - fly—
 - control in Hawaii, 1968e
 - Mediterranean (*Ceratitis capitata*), 198j, 387, 730, 2566
 - oriental (*Dacus* spp.), 1882, 1968a, 1975
 - Queensland (*Strumeta tryoni*), 168
 - frost damage to, 2479, 2481, 2482
 - growing—
 - in Argentina, 2317
 - in Austria, 1276
 - in Belgium, 538, 539
 - in the Caribbean, 472
 - Demonstration Trials, Hoofddorp, Rep. 1938-48, 484

Fruit-growing (continued)—

- in Eire, 2388
- in Evesham Valley, England, 536
- in France, 2136
- in Germany, 1369d
- in Gt Britain, 1208, 3395
- in Holland, 537
- in India, 988, 3420
- manuals on, 465, 469, 1167, 2136, 3395
- in New Jersey, 1275
- in New Zealand, 485, 486
- in Norway, 2316
- in Pakistan, 1880
- in Pennsylvania, 1209
- research in, 1369e
- in Siberia, 1279
- in South Tyrol, 1277
- in Sweden, 2305, 2391d
- in Switzerland, 100b, 540
- in Tunisia, 2391b
- in U.S.A., 2307
- juice—
 - dietetic value of, 3378
 - manufacture, 1157, 2121m
 - storage, frozen pack, 2102
 - marketing, 2303m, 2303v, 2390, 2391a
 - moth, oriental (*Grapholitha molesta*), 173, 174, 1566j, 2541, 2660k
- packing, 2086, 2088
- pigments, 1243
- preservation, 1131
- products, moisture determination in, 3379
- Res. Stat., New Zealand, 486
- respiration of, 3365
- seedless, 535h
- set induced—*see* Growth substances, parthenocarp
- storage—
 - in Belgium, 1134, 3366
 - cold, 438, 2087
 - frozen pack, 2100, 2102, 2126
 - gas, 439
 - quality' growth substances improve, 2093
 - room, ventilation of, 436
- sub-tropical—
 - frost damage to, 3105, 3106
 - fruit shape affected by climate, 3104
 - growing in Russia, 990, 991
 - a manual on, 1156
 - pest control, 1968f, 1974, 1975
- tree(s)—
 - dwarf, a manual on, 1167
 - spacing, 1369i
 - staking, aluminium tie for, 533
 - terrace building for, 94
 - as windbreaks, 1285, 1455
 - a world survey of, 500
- trials at Wisley, national 545,
- tropical—
 - dietetic value of, 1143
 - pectin from, 1145
 - a review, 1156
 - storage, frozen pack, 3380

- Fruit (continued)—
 varieties—
 for canning, 1371
 a list of, 100a
 for prairie, 2163
 vitamin C content, 455, 3381
 Fuller's rose weevil (*Pantomorus godmani*), 253
 Fumigation—
 acrylonitrile-carbon tetrachloride mixture ("carbacyl"), 2099
 citrus, 1045c
 hydrocyanic acid, 158, 1931
 methyl bromide, 2572
 of nursery stock, 1206
 a review, 756
 of seeds, 2099
 soil—
 bromide-chloride mixtures, 3376
 carbon disulphide, 877, 1616
 chloropicrin, 232, 833, 877, 878
 D-D, 877, 878, 1197, 1772, 3330
 dichloropropene, 1955
 ethylene dibromide, 232, 392, 1955, 1956
 formalin, 877, 2172
 as herbicides, 1568
 implements for applying, 1197, 1566i
 methyl bromide, 1781, 2744
 object of, 1566w
 soil sickness overcome by, 1929
 for tobacco root rot, 3020
 for *Verticillium* control, 877
 Fungi—
 beneficial effect of parasitic, 2510
 a manual on, 2138
 virus inhibitors produced by, 3019
 Fungicides—see Sprays, fungicides
Furcraea spp. as fibre plants, 2162
Fusarium—
 albiedinus, 1940, 3169
 batatis var. *vanillae*, 2154
 bulbigenum, 973, 1836
 caeruleum, 317, 2927-2929
 in cucumber, 25
 decemcellulare, 2039
 lycopersici—see also Tomato varieties, *Fusarium*—198g
 oxysporum—
 f. *batatas*, 1041
 on coffee, 3230
 on coriander, 3420
 f. *delphinii*, 967
 f. *gladioli*, 1846, 3082, 3083
 f. *lycopersici*—see also above, *lycopersici*—1177, 1687, 2852, 3441
 on oil palm, 3244
 f. *pisi*, 282, 1674
 root rot of bean, 3054f
 solani, 1674
 in U.S.A., 646
 wilt—
 of pea, 282, 3054f
 of water-melon, 486
Fusicladium—see also Apple and Pear, scab—*dendriticum*, 2629
 eriobotryae, 2516
Galerucella decora, 2537
Garcinia morelli, a medicinal plant, 2085i
 Garden planning, 1809
 Gardenia—
 bud abscission, 374c
 flowering in, 374c
 spray injury to, 347
 tetraploid varieties, 3440
 Gardening—
 for amateurs, books on, 2131, 2170, 3403
 Encyclopaedia of, 3404
 Garlic—
 a bactericide from, 1646, 1647
 control of wild, 3417
 growing in England, 278
 Gas storage—see Storage, gas
 Geldermalsen, A.R. Rijkstuinbouwconsulent-schap te 1948, 477
 Genetics—see also Breeding—
 a manual on, 3396
 Soviet, 1162, 1165, 2509, 3407
 Gentianaceae, cytology and biology, 968, 1822
 Georgia Exp. Stat., A.R. 1948/49, 3417
 Germany—
 apple grading and packing, 1367
 fruit growing, 1369d
 scale insects, 1566x
 small fruit varieties, 1288
 Germination—see Seed
 Ghent agric. Inst., 2180
 Gherkin—
 emasculatation and N nutrition, 1661
 photoperiod and N supply, 273
 virus diseases, 274
 Ginger culture and preparation, 434
 Gladiolus—
 Botrytis rot, 1845, 3431
 corm drying, 3431
 disease control, 1836
 Epimadiza sp. on, 1197
 fluorine injury to, 374f, 1843
 Fusarium oxysporum f. *gladioli*, 1846, 3082, 3083
 growing—
 in Algeria, 3080
 in France, 3079
 investigations at Naaldwijk, 2165
 manuring, 355, 356, 3081
 smut (*Urocystis gladiolicola*), 1844
 thrips, 361
 weed control, 212, 230, 1879d, 2689
 Glasshouse—
 construction, 1266, 2300
 crops—
 in Gt Britain, 1208
 a manual on, 3393
 heating, 45, 2181
 illumination—see also Light, artificial—7, 8, 2165, 2859, 3422
 insecticide and fungicide, application in, 46

- Glasshouse (*continued*)—
 pest control, 1615, 1873, 2753
 red spider control, 48i, 1615, 1873, 2753, 2754
 salad crops, 1597
 vegetable production in, 2730
- Gleditschia for shelter belts, 1454
- Gloeosporium—
alborubrum, 2039
ampelophagum, 2517
concentricum, 827
ribis, 606
- Glomerella cingulata, 753
- Gloriosa rothschildiana, colchicine treatment of, 2255
- Gloxinia varieties, Swiss, 1823
- Glutamine isolation, 2205
- Gnorimoschema operculella—see Potato tuber worm and Tobacco leaf miner
- Godetia, Alternaria stem blight, 1813
- Gold Coast, lime growing, 386
- Gooseberry—
 breeding in Russia, 609
 cuttings, 2397
 diseases and pests, 2661e
 growing in Scotland, 610
 leaf spot (*Pseudopeziza ribis*), 144
 mildew, American (*Sphaerotheca* sp.), 1475
Plowrightia ribesia on, 144
 sawfly, 649, 1521
 storage of fresh, 3373
 temperature sums for, 83
 varieties in Germany, 1288
- Gourd, flower of bottle, 2078
- Graeffea crouani, 1975
- Graft hybrids, 2290
- Grafting—see also Frameworking and particular plants—
 bridge-, 1310
 cacti, 3090
 fruit trees, 1161
 growth substances as aid in, 1180, 2147, 2433
 methods, 560, 1198
 reviews on, 19, 2290
 root—
 of fruit trees, 67, 561
 of vine, 2428
 splice, 3238
 spring, under glass, 2289
 tongue, 77
- Granadilla—see Passion fruit
- Grape—see Vine
- Grapefruit—see also Citrus—
 boron toxicity, 3138
 fruit—
 drop control, 1019
 shape, climate affects, 3104
 size, growth substances increase, 3130
 gum, 3193a
 jelly, 1045a
 manuring, 3134
 marketing, 3193g
 naringin in fruit, 3165
 peel, carbohydrate fractions of, 2121r
 rootstocks, 1185, 3138
- Grapefruit (*continued*)—
 salt tolerance, 3138
 stem pitting virus, 1195, 1196
 storage, 2093
 taxonomy and varieties of, 3115
- Graphognathus spp., control of, 2744
- Grapholitha molesta—see Fruit moth, oriental
- Grasshopper control, 1814
- Gravel culture—see Soilless culture
- Great Britain—see also England, Scotland and counties—
 eucalyptus growing in, 1861
 fruit growing, 1208
 glasshouse crops, 1208
 herbs of, 468
 plant diseases in, 645, 1420, 1422
 vegetable growing, 1208
- Greece, vine growing, 1390
- Grevillea robusta compacta, a shade tree for coffee, 2013
- Growth—
 activity, chemical aspects of plant, 1274y
 inhibiting substances—see also Seed germination, inhibitors of—
 from bean seed, 2251
 a review, 2247
 root secretion of, 2193
 measurement, apparatus for, 1218
 substance(s)—
 activation by onion juice, 280
 aminopterins, 1227
 assay of—see below, tests
 bean plants' response to, 14, 535k, 792, 1226, 1233, 1578, 2230, 2239-2242, 2691
 benzoic acid, 1705
 bitter pit of apples reduced by, 1429
 bolting in lettuce and celery affected by, 277
 for bulb storage, 976
 for callus formation, 1229
 cherry composition affected by, 1360
 chromium trioxide, 2244
 -colchicine treatment, combined, 1808e, 2256
 content—
 of black currant and cherry fruits, 18
 of chlorotic leaves, 2245
 of potatoes, 1741
 of strawberry—
 achenes, 2414
 cotyledons, 627
 "corhormone", 2252
 crown gall and, 48k, 1229, 1230
 for cuttings, 13, 76, 364, 370, 478, 774, 984, 1006, 1224, 1312, 1856, 1875, 2012, 2147, 2162, 2244, 2329, 2330, 2397, 2432, 2435-2438, 3210, 3226, 3338
 2,4-D—see also Herbicides—
 action of, 517, 2250
 persistence in tissue, 3190
 radio-active, 2230
n-diamylacetic acid, 535b
 2: 6-dichlorophenoxyacetic acid, 2243

Growth—substance(s) (*continued*)—

- dormancy prolonged by—
 - in caladium, 362
 - in chestnuts, 640
 - in potatoes, 450, 895-897, 1736-1738
- flowering—
 - in cut flowers hastened by, 344
 - delayed by, 2248, 2416, 3427
 - of pineapple—*see also below*, pineapple—
 - induced by, 3249
 - prolonged by, 3440
- fruit—
 - abscission caused by, 2416
 - drop retarded by—*see* Fruit drop
 - ripening affected by, 2380, 2868, 3440
 - set—*see below*, parthenocarpy
 - size in orange and grapefruit increased by, 3130
- fungicide treatment combined, 1875, 2256
- glutathione, 516
- for grafting, 1180, 2147, 2433
- as herbicides, 203-209, 214-219, 221-240, 241d-241g, 499, 502, 777, 778, 783, 784, 786-792, 795, 796d, 1177, 1178, 1180, 1567, 1569-1573, 1576, 1578-1580, 1582-1585, 1589-1593, 1594b, 2662-2672, 2674, 2678, 2694-2696, 2698, 2699, 2703, 2704, 2882, 3427, 3440
- heteroauxin or indoleacetic acid, 16, 535k, 1228, 1274h
- IPPC—*see also* Herbicides—1738
- maleic hydrazide, 2416
- Kalanchoe* response to, 374k
- lemon response to, 382
- MCPA—*see also* Herbicides—1234
- nicotinium compounds, 513
- onion plants' response to, 854
- ortho effect in, 2238
- parthenocarpy induced—
 - in fig, 1330, 1331, 2352
 - in mango, 1083
 - in melon, 850, 851, 2165
 - in pear, 1328
 - in pepper, 2165
 - reviews on, 11, 12, 499
 - in tomatoes, 11, 292, 293, 868, 869, 1214, 1215, 1698, 1704-1709, 2165, 2866, 2869
 - in vine, 11, 1180
- pea plants' response to, 15, 535k, 1180
- phenoxy compounds, substituted, 374k
- 2-phenoxyethylamine derivatives, 48e
- for pineapple suckers, 2158
- potato—*see also above*, dormancy—scab
 - inhibited by, 959o
- proprietary, listed, 2235
- iso-propylphenylcarbamate (IPPC)—*see also* Herbicides—1738
- pyruvate, 1231
- reviews on, 511, 512, 1224, 2233, 2247, 2303i, 2303p
- ripening—*see above*, fruit ripening
- for rootstock propagation, 2234

Growth—substance(s) (*continued*)—

- seed—
 - germination affected by, 17
 - treatment with, 1652, 1780
- storage quality—
 - of fruits affected by, 597, 2092, 2093, 3441
 - of vegetables improved by, 2092, 2095
- strawberry fruit growth determined by, 1385
- tests, 1225, 1232, 2236, 2246, 2439
- for thinning—
 - apples, 499
 - fruit, 2378
- tobacco, axillary growth suppressed by, 922, 1785, 3014
- tomato plants' response to, 1705
- translocation of, 515
- vine response to, 1584, 2434
- for wound healing, 516, 563
- Grubbing trees, 1213, 2295, 3168, 3440
- Guam, flora of, 1047
- Guar (*Cyamopsis*), mucilage and manno-galactan from, 1151, 2809
- Guava—
 - ant control, 1028
 - frost—
 - damage to, 3105
 - resistance in, 2022
 - fruit fly (*Pterandrus rosa*) control, 1197
 - juice manufacture, 2112
 - Puccinia psidii* on, 144
- Guayule—
 - breeding, 3048, 3440
 - growing in Australia, 1177, 1178
 - pest control, 3051
 - pollination, 3053 l
 - rubber—
 - content, factors affecting, 1177, 3049
 - extraction, 3438
 - hydrocarbon, function of, 956
 - molecular weight, 1807
 - selection, 3047
 - transplanting, 2173
 - Verticillium* wilt, 3050
- Guizotia abyssinica*, an oil plant, 2121a
- Gum—
 - benzoin, *Styrax tonkinensis* a source of, 3350
 - chicle, 2041, 2042
 - grapefruit and lemon, 3193a
 - peach, 2303k
 - Sterculia setigera*, 3363m
- Gummosis of fruit trees—*see separate species*
- Gur, 2109, 2110
- Hail—
 - damage—
 - to apples, 1450
 - to vines, 1449, 2485, 2512
 - protection against, 2661g
 - rockets to combat, 2486
- Hainesia* sp. on strawberry, 1479
- Hakea laurina*, an ornamental shrub, 3094
- Halisidota maculata*, 1172

- Hancornia speciosa*, a rubber plant, 426
Haptoneus luteolus, 1941
 Hardiness—see Frost resistance
 Harvesting—see individual crops
 Hawaii—
 pineapple industry in, 2129
 sugar cane growing, 3270
 Hazel—see also Cobnut and Filbert—
 manuring, 642
 rootstocks, 2450
 varieties in Italy, 2450
 Heather, *Verticillium* wilt of, 2735
 Hedges—
 dwarf shrubs for low, 987i
 fruit tree, 88, 2376
 a manual on, 3392
Heilipus lauri, 1032
Helianthus tuberosus—see Artichoke, Jerusalem
 Helicopter for spraying and/or dusting, 184, 771, 1175, 1590, 2956, 3440
Heliothis armigera—see Tomato fruit worm and Maize corn borer
Heliothrips haemorrhoidalis, 1030, 1031
Helminthosporium—
 avenae, 1542
 heveae, 3260
 torulosum, 1072
Helopeltis—
 in cacao, 399
 control in tea, 3435
Hemerocallis fulva, colchicine treatment of, 2255
Hemerocampa leucostigma, 1172
Hemiceras cadmia and *H. velva*, 1032
Hemileia vastatrix on coffee, 478, 1071
Hemiptera of North Africa and the Mediterranean, 1566
 Hemp, Manila (*Musa textilis*)—
 bunchy top virus, 3236
 diseases, 1072
 fibre—
 extraction, 1073
 quality, 2018
 growing—
 in Borneo, 3235
 in Philippines, 404, 1072, 3233, 3363k
 taxonomy of, 435b
 Henequen (*Agave fourcroydes*), a fibre plant, 3233
 Herbicide(s)—see also Growth substances—
 aeroplane or helicopter for application of, 241g, 1573, 1590, 3440
 Agroxone—see also below, MCPA—502, 783
 ammonium—
 quaternary, 2678
 sulphamate, 1585, 1586, 2708-2710
 apparatus for applying, 2680, 2681, 2706
 bees, effect on, 1181
 a bibliography, 2662
 borax, 1585
 chemical structure of, 1568
 4-chloro 2-methyl phenoxyacetic acid—see below, MCPA, and above, Agroxone
 Herbicide(s) (continued)—
 cyanamide, 212, 2148, 2171, 2696, 2697, 2700
 2,4-D, 203, 226-229, 233-235, 239, 240, 241d, 241e, 241g, 778, 796d, 1178, 1571, 1573, 1576, 1578-1580, 1582, 1585, 1589-1593, 1594b, 2668, 2669, 2694-2696, 2698, 2703, 2704, 3427
 2,4-D—
 activation, 280
 histological effects of, 791, 792
 injuries from—see also individual plant species—789
 seed germination of crop plants affected by, 790
 soil application of—see Weed control by soil treatment
 for stump eradication, 3440
 dinitro-sec.-butyl-phenol, 207, 1481
 dinitro-o-cresol (DNC), 2672, 2673
 fungicidal action of, 1481
 helicopter for applying—see above, aeroplane
 IPPC—see also Growth substances—210, 786, 1569, 1579, 1583, 3431
 list of, 1545, 2630, 2712b
 maleic hydrazide, 2674, 2675
 MCPA—see also Growth substances, and above, Agroxone, and below, Verdone—784, 1579, 1591, 2694, 2704
 oil, 220, 780, 1178, 2150, 2676, 2677, 2705, 3122
 pentachlorophenol—see below, sodium salt
 plant cell, reaction to, 205
 potassium ethyl xanthate, 779
 pre-emergence application of—see above, 2,4-D, and Weed control by soil treatment
 iso-propylphenylcarbamate—see above, IPPC
 reviews on, 498, 785, 787, 796a, 796b, 796e, 2662-2667
 sodium—
 chlorate, 237, 1586
 pentachlorophenate, 211
 iso-propyl xanthogenate, 3141
 trichloroacetate—see below, TCA
 soil—
 fumigants as, 1568
 structure and, 2692
 spray injury by, 1567, 1584
 Stoddart solvent, 2689
 TCA, 232, 236, 241f, 2679
 2,4,5-trichlorophenoxyacetic acid (2,4,5-T), 232, 1569, 2683
 Uramon+cyanamide, 2700
 Verdone (MCPA+IPPC), 502
 Herbs, a manual on British, 468
Heterodera—
 carotae, 836
 marioni, 646, 878, 915, 930, 1197, 1616, 1723, 2534, 2536, 2804, 2874
 rostochiensis, 319, 915, 1771-1773, 2804, 2944-2946
Heteronychus spp. on sugar cane, 3326
Heterosporium tropaeoli, 3074

SUBJECT INDEX

- Hevea*—see also Rubber, *Hevea*—*pauciflora*, blight resistance in, 3252
Hibiscus—see also Okra—*cannabinus*, a fibre plant, 2021
Himalaya berry—see Blackberry
Himatanthus spp., chicle gum from, 2042
Hoe, standardized specification of swan-necked, 2299
Holland—
 fruit growing, 537
 horticultural—
 advisory service, 477
 soil survey, 25
 nursery inspection service, 556
 potato growing, 1725
Holly—
 culture in Oregon, 3431
 cuttings, 1862
 leaf miner (*Phytomyza* sp.), 3102
Holochlora pygmaea, 1121
Honey—
 plants, 1211
 plus growth substances for vine cuttings, 2436
 poisonous, 1212
Honeysuckle—
 control, 1585
 weed control under, 229
Hong Kong agric. Dep., A.R. 1948/49, 2156
Hoofddorp, Fruitteelt—Demonstratiebedrijf, Rep. 1938-48, 484
Hop—
 antibiotics from, 2989
 aphid control, 1550
 certification, 343j
 cuttings, 343v, 2982
 cytology, 3053h
 diseases, 328, 329, 3053t
 downy mildew, 330, 2149, 2988
 drying, 2990-2993
 growing—
 in England, 945
 in New Zealand, 485, 486
 in Yugoslavia, 2986
 iron deficiency, 2984
 layering, 343v, 2981
 magnesium deficiency, 2985
 manganese toxicity, 2984
 manuring, 2149, 2983, 3431
 mosaic, 486
 pests, control of, 331
 quality evaluation, 3431
 red spider, 1550
 resins, 2989, 3438
 reviews of the literature on, 945, 946
 training, 2149, 3431
 varieties—
 brewing trials with new, 944, 947
 Verticillium resistant, 947
 Wye, in Hereford, 327
 Verticillium wilt, 944, 947
 vine borer, 2149
 virus diseases in Czechoslovakia, 2987
 yields, number of bines per hill related to, 948
Hoplia oregona, 2558
Hoplocampa—
 brevis, 2539
 flava, 744, 2598
 minuta, 2598
 rutilicornis, 2598
 testudinea, 743, 2597
Hormones, plant—see Growth substances
Hornet, oriental, a bee and fruit pest, 2600
Horseradish—
 emanations, fruit storage improved by, 3373
 peroxidase reaction, 957, 959e
 seed production, 333
Horticultural—
 Educ. Ass., A.R. 1949, 3418
 research in Australia, 495
Horticulture—
 in Gt Britain, 1208
 in Iceland, 2181
 in Indonesia, 397, 1046
 in Israel, 497
 on moorland soil, 458
 in Queensland, 989, 3197
 in Scotland, 2179
 in Switzerland, 2713
Hot water treatment for *Phytophthora* spp., 1930
House plants, a manual on, 2134
Hovenia dulcis—
 sugar content, 1965
 trees in France, 60
Humulinone, a hop resin, 2989
Humulon, an antibiotic, 3438
Hyalopteris arundinis, 1493
Hybridization—see also Breeding—vegetative, 4
Hydrangea breeding, 2172
Hydrastis canadensis, a medicinal plant, 338
Hylemyia—
 antiqua—see Onion fly
 brassicae see Cabbage root fly
 platura, 2769
 radicum on bean, 260
Hymenia fascialis, 2838
Hyoscyamus niger—
 a host plant of Colorado beetle, 2952
 photoperiodic reaction, 2219
Hypericum perforatum control, 486, 1576
Hyplantria textor, 2537
Hypothenemus hampei—see Coffee berry borer
Hyppa xylinoides, 2592
Hyptis spicigera, an oil plant, 3354
Iceland, hot springs horticulture of, 2181
Icerya purchasi on citrus, 1931
Ilex opaca cuttings, 346
Imperata spp., control of, 2169
Imp. Coll. trop. Agric., Trinidad, work at, 1978
Incompatibility—see also individual crops under rootstocks and pollination—in flowering plants, genetics of, 3
India—
 apple growing, 541

SUBJECT INDEX

- India (*continued*)—
 areca nut growing, 2075
 banana growing, 1979
 citrus growing, 993
 fruit and vegetable growing, 988
 medicinal plants of, 3026
 plant diseases in, 2138
 pulses of, 1970
 pyrethrum growing, 775
 sugar—
 cane growing, 2044
 industry, 1103-1105
 tea growing, 3435
 vegetable seed production, 800, 801, 1599
- Indian—
 Coffee Bd, A.R. 1947/48, 478
 Coun. agric. Res., A.R. 1948/49, 3420
 Tea Ass. sci. Dep., A.R. Tocklai exp. Stat. 1948, 3421
- Indicator, a natural pigment as oxidation-reduction, 1244
- Indonesia—*see also separate islands*—
 cacao growing, 399
 coffee growing, 402, 2011
 horticulture in, 397, 1046
 palm oil exports from, 3241
 sugar cane growing, 3267
- I.N.E.A.C.—*see* Institut national
- Injection—*see also* Deficiency, mineral, Fertilizer(s) and Manuring—needle for interveinal leaf, 2266
- Inocarpus edulis*, 1975
- Insect—
 barrier of high-frequency current, 1543
 pests—*see also* Pests—
 common names of, 720, 2538
 of forest and shade trees, 1172
- Insecticidal plants—
 derris—*see* Derris
Dichapetalum cymosum, 1553
Lonchocarpus, 773, 2660m
Mammea americana, 2656
 miscellaneous, 2654
 pyrethrum—*see* Pyrethrum
Ryania spp., 2588
Tripterygium wilfordii, 1565
 from tropical America, 776h
Veratrum album, 1554
- Insecticide(s)—*see also* Sprays, insecticides—
 Manufacturers, Ass. of British, 2122
- Institut—
 des Fruits et Agrumes Coloniaux, A.R. 1948, 2158
 national pour l'étude agronomique du Congo belge (I.N.E.A.C.), A.R. 1948, 2157
- Inulin from dahlia and sunflower tubers, 953, 3103g
- Iodine—
 determination in plants, 1274m
 and plant life, 2128
- Ipomoea*—*see also* Sweet potato—
purpurea, leaf development of, 3072
 spp., control of, 234, 240
- Iris—
 "blindness", 3440
 bulb storage, 975
 diseases, 970, 3085
 forcing, 3440
 nematodes in, 1847
 weed control, 230
- Irish moss production in U.S.A., 339
- Iron—
 absorption by pineapple, 3248
 content of plants, 29
 deficiency—*see also* Chlorosis—
 in apple, 660
 in citrus, 660, 1920, 3139
 in fruit trees, 2152
 in hop, 2984
 in lemon, 1920
 in orange, 1920, 3139
 in peach, 660
 in pineapple, 3247
 in potato, 2895
 in strawberry, 659
 in vine, 1177
 estimation, 2264
 toxicity to raspberry, 661
 "Iron Monkey" in orchard work, 1362
- Irrigation—
 apple, 1356
 artichoke, 1264
 avocado, 1892
 beans, 2731
 cabbage, 2775, 2776
 carrot, 810, 1654
 citrus, 375, 376, 1015, 1177, 1178, 1912, 1918, 3132
 coffee, 3433
 concrete pipe for, 1263
 contour-check method, 589
 control, physics of, 1222
 fertilizer application with, 499, 1178, 1733, 1918, 2279, 2724
 for frost protection, 1386, 1437, 1441, 2373, 2483, 2484
 fruit crops, 95, 589-591, 1353, 1354, 2370
 furrow, 95, 590
 in Holland, 44
 lettuce, 2812
 maize, 810, 1684, 2731
 a manual on, 3408
 melon, 1264
 in Murray Valley, 2282, 2284
 in Oklahoma, 2281
 olive, 592
 orange, 1015, 1177, 3133
 pepper (*Capsicum*), 2785
 potato, 1733, 1734
 in Spain, 2283
 sprinkler, 810, 1265, 1353, 1355, 1386, 2371-2373
 strawberry, 1386
 sub-, 1274n
 sugar cane, 3363s
 tobacco, 1178, 1187
 tomato, 1178, 2731, 2863

- Irrigation (*continued*)—
 underground water for, 534
 vegetable, 810
 vine, 1178
 walnut, 2451
- I.R.S.I.A.,* Belgium, A.R. 1949, 3419
- Isoloma hirsutum*, viruses of, 3103k
- Isotopes, radio-active—*see* Radio-active
- Israel—*see also* Palestine—
 citrus growing, 1899, 3112
 flora of, 2
- Italy—
 apple growing, 599
 citrus growing, 3109
 fruit breeding, 2315
 hazel growing, 2450
 mushroom growing, 2974
 olive growing, 53, 58, 2311, 2323
 pear growing, 2308
 sweet potato growing, 3180
 tobacco growing, 323
 vegetable seed production, 959q
 vine growing, 1388, 1395, 2421
 weeds in, 200, 1575
- Ivory Coast, Station régionale d'Azaguié, 2158
- Ivy, *Cylindrocladium scoparium* on, 149
- Ixia, artificial lighting for, 2165
- Jackfruit, fruit fly control, 3358
- Jamaica—
 citrus growing, 996
 Dep. Agric., A.R. 1946/47 and 1947/48, 2159, 2160
- Japan, garden farming in, 2182
- Japanese beetle control, 1496, 1497, 2555, 2556, 2660w
- Jasminum grandiflorum* cuttings, 2432
- Java—*see also* Indonesia—antibiotics from higher plants, 2611
- John Innes hort. Inst., A.R. 1949, 3422
- Johnson grass (*Sorghum halepense*) control, 235-239, 241c, 241f, 794, 795, 1588, 2706
- Journals, title abbreviations of biological, 2124
- Juglans*—*see also* Walnut—
hindsii as walnut rootstock, 116
 spp., frost resistance in, 131
- Jujube (*Zizyphus* spp.) growing—
 in France, 1966
 in U.S.A., 3188
- Justicia gendarusa* cuttings, 527
- Kaki (*Diospyros kaki*)—*see* Persimmon
- Kalanchoë*—
 flowering impulse and phyllomorphosis, 987d
 growth substance effect on, 374k
 photoperiodic reaction, 8, 3073
- Kale, vitamin C content, 390
- Kapok (*Ceiba*) grafting, 3234
- Kent, spring frosts in, 2477
- Kentucky agric. Exp. Stat., A.R. 1948, 2161
- Khellin from *Ammi visnaga*, 1808w
- Kniphofia, a triploid, 987a
- * Inst. pour l'Encouragement de la Recherche scientifique dans l'Industrie et l'Agriculture.
- Knolkohl, damping off in, 1808s
- Kohl rabi, ant damage to, 1808b
- Kok saghyz—
 carbohydrate metabolism, 1806
 manuring, 3046
 peroxidase reaction, 957
 seed germination, 17
- Kola—
 growing in Nigeria, 1185
 propagation by cuttings, 1185
- Kuehneola uredinis*, 1480
- Labels, lettering of garden, 3055
- Lacmellea pauciflora*, chicle gum from, 2041
- "Ladang" system of cultivation in Sumatra, 398
- Ladders—*see also* "Iron Monkey"—for orchard work, 1363
- Ladybird, control of leaf-eating, 1609, 1610
- Lagenaria leucantha*, flower morphology, 2078
- Lalang (*Imperata* spp.) control, 1973, 2169
- Lantana camara* control, 2686
- Larrea divaricata*, 959j
- Laspeyresia*—
caryana, 179
molesta, 739
nigricana, 244
pomonella—*see* Codling moth
- Latex—*see also* Rubber—
 plants in tropical America, 2041, 2042
- Laurel, cherry, 1813
- Lausanne vitic. and hort. Res. Stat., A.R. 1948, 1180
- Lawn—
Agrostis canina, for dry positions, 1877
 centipede grass, 1878
 management, 2133
- Layering—
 litchi, 2162, 3170
 mulberry, 2159
 rhododendron, 3091
- Lea Valley, crops under glass, 3053b
- Leaf(ves)—
 abscission, 1248
 analysis—*see also* Tissue testing and separate crops—by colorimetric methods, 508
 colour measurement, 1335
 cuttings, 21
 deformation, virus causes, 679
 P and Fe content of autumn-coloured and variegated, 2268
 tier control, 1816
 vitamin C content of darkened, 812
 water saturation of chlorotic, 2245
- Leafhopper—*see also* particular crops—spp.
 as virus vectors, 135-137
- Lecanium corni*, 757, 1566a, 3101
- Leek—
 growing in England, 278, 1808t
 manganese deficiency, 27
 seed production, 853
- Legumes—
 inoculation of, 100d
 nitrogen manuring after, 1252

SUBJECT INDEX

- Lemon—*see also* Citrus—
 brown rot, 385
 chlorosis, 1920
 frost damage to leaves, 1020
 fruit drop, control of, 1019, 1916
 growing—
 in Russia, 1900
 in tubs, 381
 growth substance effect on, 382
 gum, 3193a
 iron deficiency, 1920
 Meyer, an orange-lemon hybrid, 380
 necrosis, phloem, 1023
 packing, 1018
 peel, carbohydrate fractions of, 395a
 pest control, 1931
 potassium and phosphorus deficiency, 1014
 root cuttings, 1006
 rootstocks, 1014
 scab (*Sphaceloma fawcetti*), 1003
 selection, 3125
 shell bark, 1927
 spray—
 injury to, 1923, 1924, 3161
 residue, 2650, 2653
 storage—
 cold, 3390f
 growth substances in, 2093, 3441
 rots, control of, 3441
 training of, horizontal, 1900
 tree collapse, 383
 variety, Assam, 1003
 windbreaks for, 3142
- Lentil beetle (*Bruchus lentis*), 2810
- Leonurus lanatus*, a medicinal plant, 1802
- Lepidoptera*, parasites of, 2660j
- Lepidosaphes pinnaeformis* on citrus, 1197
- Leptocoris trivittatus*, 3092
- Leptospermum* spp. for waste land, 2143
- Leptosphaeria coniothyrium*, 144
- Lettuce—
 aphid, red, 2742
 bolting, 277
 composition, 276, 806
 damping-off, 845
 downy mildew, 1180
 under glass, 275
 grading, 3430
 growing in North Carolina, 1808p
 irrigation, 2812
 mosaic, 486, 1181
 nitrogen supply and illumination, 276
 nutrition, 2721
 planting, 843, 2811
 salt tolerance, 1604
Sclerotinia sclerotiorum, 3053n
 seed—
 disinfection, 845
 production, 277
 seedlings, watering of, 496
 soil warming, electric, 2813
 sowing, depth of, 496
 spacing, 843
 tetraploid, 2254
- Lettuce (*continued*)—
 transport of, 844
 varieties, Cheshunt, 1174
 vitamin C content, 455
 weed control, 782, 1579
 yields, soil texture affects, 25
- Leucaena glauca*, diseases of, 433
- Leveillula taurica*, 1813
- Liberia—
 citrus experiments in, 1907
 rubber growing, 3250
- Light—
 artificial—*see also* Glasshouse illumination—
 growing plants in, 7, 8, 367, 502, 1270, 2165
 effect on plant growth, 2218
- Ligustrum* cuttings, 1856
- Lilac—
 culture, 372
 cuttings, 346
Lyta sphaericollis on, 1172
 weed control under, 229
- Lilium sherriffiae*, 1851
- Lily(ies)—
 bulb storage, 976
 Easter, 357, 976
 growing in England, 1848, 3409
 leaf burn, 1849
 a manual on, 3409
 mineral deficiency in, 1849, 1850
 soil amendments for, 3086
- Lime—*see also* Citrus—
 die-back, 1196
 dying, 386, 1192, 3111
 growing—
 in Dominica, 3111
 in Gold Coast, 386
 Kaghzi (*Citrus aurantifolia*), 3117
 Palestine sweet, 1007
 virus disease, 1922
- Liming—*see also* Calcium—orchard soils, 2365
- Lippia carviadora*, an oil plant, 3040
- Liriodendron tulipifera*, 1879h
- Liriomyza solani*, 1174, 1721, 3411
- Listroderes obliquus*, 252
- Litchi—
 flowering, time of, 1002
 growing in China, 1033
 layering, 2162, 3170
 mite, 3171
- Lithocarpus densiflora*, tannin from, 3025
- Little leaf—*see* Zinc deficiency
- Lixus iridis* on lovage, 2739
- Lobelia inflata*, a medicinal plant, 1796
- Locust control, 1121
- Loganberry growing in Oregon, 607
- Lonchaea aristella*, 733, 1504
- Lonchocarpus*, an insecticidal plant, 773, 2660m
- Long Ashton agric. and hortic. Res. Stat.—
 A.R. 1949, 3424
 fruit breeding at, 2313
 temperatures at, 2303c
- Lophopetalum toxicum*, extracts induce variation, 1976

- Loquat scab, 2516
 Lovage, *Lixus* sp. on, 2739
Luffa spp. as medicinal plants, 1800
 Lungan (*Euphoria longana*), 1002, 1034, 3172
 Lupulon, an antibiotic, 3438
 Luxemburg, vine growing, 119c
 Lyamungu, Moshi, Coffee Res. exp. Stat., A.R. 1947, 3433
Lychnis chalconica, frost resistance of, 1812
 Lycopen determination, 1699
 Lycopersicin—see Tomatin
Lycopersicon spp.—see under Tomato breeding
 Lycopersin from *Fusarium lycopersici*, 198g
Lygus campestris, 2792
Lymantria dispar, 757
 Lysenko—see Genetics, Soviet
Lytta sphaericollis, 1172
- Macanilla* spp., oil-bearing palms, 474
 Macaulay Inst. Soil Res., A.R. 1948/49, 1182
 Machines—
 for bunching vegetables and flowers, 2298
 for castor bean harvesting, 3427
 for clay soil cultivation, 1973
 farm, 2303 l
 for fertilizer distribution, 2729, 3440
 for land clearance, 2381
 for planting, 2296, 2297, 2328, 2906, 2907
 for potato digging, 2908
 for sugar cane, 1108, 1112, 2056-2059, 3269, 3299-3311, 3363f, 3363n, 3440
 for tropical crops, 3201
 vineyard, 2443
Macoubea guianensis, chicle gum from, 2041
Macrophomina phaseoli, 817
Macrosiphoniella sanborni, 1550
Macrosiphum—
 gei, a virus vector, 1754
 pisi, 244
 rosae, 1550
 solanifolii, 318, 1755, 1756
Macrosporium solani, 301
 Madagascar—
 kapok growing, 3234
 rubber growing, 3251
Magiciada septemdecim, 198c
 Magnesium—
 atmospheric dust injury to plants, 2471
 deficiency—
 in apple, 486, 1425
 in cacao, 1200
 in hop, 2985
 in melon, 852
 in potato, 903
 in *Solanum capsicastrum*, 1174
 in tomato, 3411
 in vine, 3428
 effect in nutrient solution, 2262
 estimation, 1256, 2264
 manuring, a review, 1255
 toxicity, 1186
 Magnolia cuttings, 984
Magnoliaceae, pollen morphology of, 1879b
Mahonia nepalensis, a medicinal plant, 952
- Maine agric. Exp. Stat.—
 A.R. 1948/49, 479
 work at, 1204
 Maize (sweet corn)—
 copper deficiency, 864
 corn borer, 1686, 2843
 cover crops, 1685
 earworm control, 1685, 2843
 growing—
 in England, 287, 288, 1683
 in Oregon, 959f
 hardiness, selection for, 863
 irrigation, 810, 1684, 2731
 manuring, 1685
 maturity, determination of, 2841
 quality, 1808q
 seed testing, 1682
 sowing dates, 1683
 variety(ies)—
 Golden Freezer Hybrid 8736, 1808a
 for Mississippi, 289
 Pennsdale 5S-2, 2840
 weed control, 217, 218, 227, 777, 1580, 2693, 2694, 2697, 3427, 3428
 zinc deficiency, 864
 Malachite green, fungistatic effect of, 3346
Malacosoma—
 neustria, 740, 2739
 spp. on fruit, 1172
 Malaya—
 pineapple growing, 2129
 plantation crops of, 3196
 Salacca spp. of, 2085d
 vegetable growing, 1596
 Zingiberaceae of, 3363 l
 Malta Dep. Agric., A.R. 1938-46 and 1946/47, 1183
Malus—see also *Pyrus* and Apple breeding and rootstocks—
 spp.—
 as apple rootstocks, 64, 2163
 scab resistance in ornamental, 146
Mammea americana, an insecticidal plant, 2656
 Mandarin—see also Tangerine—
 as rootstock, 3138
 variety, Ellendale, 999, 3116
 Manganese—
 availability, 2272, 2273
 content, soil pH affects, 29
 deficiency—
 in bean, 2272
 in leeks, 27
 in narcissus and tulip, 2153
 in orange, 3137, 3139
 in peach, 1426
 in potato, 2272
 in spinach, 27
 in vegetables, 2725
 in vine, 2449
 estimation, 2264, 2265, 2303d
 oxidation of, 48f, 1274o
 in photosynthesis, 1274j, 2303h
 toxicity, 47, 662, 663, 1732, 2984

- Mangifera*—
 a monograph of the genus, 409
 spp., morphology of, 2024-2026
- Mango—
 anthracnose, 410
 breeding, 1078
 carotenoid pigments, 3239
 chimaera, 2085j
 cytogenetics, 3237
 flower development, 1079, 1080, 1086
 flowering, induction of, 1086, 2027
 fruit, necrosis of, 3240
 a giant, 1081
 grafting, 1084, 3238
 growing—
 in East Africa, 1082
 in Queensland, 410
 inarching, 2162
 mineral deficiency, 1085
 origin of cultivated varieties, 409
 parthenocarp, induced, 1083
 pollination, 1080
 propagation methods, 1084, 1194, 3238
 tip borer (*Peperita euthysticta*), 410
 variety classification, 2023
 weevil (*Cryptorhynchus mangiferae*), 410
- Mangosteen yields, factors affecting, 1087
- Manicaria* spp., oil-bearing palms, 474
- Manihot*—
 spp. as rubber plants, 426
utilissima—see Cassava
- Manila elemi from *Canarium* sp., 2081
- Manila hemp—see Hemp
- Manuals on—
 agriculture, 460
 apple varieties, Swiss, 463
 bacterial cytology, 2125
 banana, 3402
 cider making, 2127
 DDT, 471
 diseases of plants, 2138
 fruit—
 growing, 465, 469, 1156, 1167, 2136, 3395
 juice production, 1157
 tree raising, 1161
 tropical and sub-tropical, growing, 1156
 gardening, 3403, 3404
 genetics, 3396
 glasshouse crops, 3393
 hedges for farm and garden, 3392
 herbs, 468
 house plants, 2134
 irrigation, 3408
 lawn management, 2133
 lilies, 3409
 medicinal plants, 3397
 nursery management, 2130
 olive growing, 466, 1158
 peach varieties, 3394
 pear varieties, Swiss, 464
 pineapple industry, 2129
 plant—
 breeding, 3398
 infection, 2135
- Manuals on—plant (*continued*)—
 pathology, 1155
 sociology, 2178a, 2178b
 plantation crops, 1156
 potato diseases, 2142
 propagation, 3400, 3406
 pruning, 1336
 roses, 3405
 salad production, intensive, 467
 spectrographic analysis, 2141
 vegetable—
 diseases and pests, 2140
 growing, 2139
 viticulture in England, 462
 weed control, 2123
 woody-plant seed, 1160
- Manuring—see also under *particular crops and nutrients and under Fertilizers*—
 citrus, 996, 1016
 cover crops, 1960
 fruit trees—
 general, 89, 581, 1346, 2276, 2277
 green, 583
 by soil injection, 578, 580, 2151, 2362, 2363
 with minor elements, 1253
 pollen viability in flowers affected by, 961
 small fruit, 499
 by spraying above-ground parts, 31
 truck crops, 248
 vegetables, 249, 499, 808, 809, 1178, 1603, 2276, 2277, 2722-2724
 vitamin content not affected by, 455
- Marasmius* rot of Manila hemp, 1072
- Marigold variety trials, 1824
- Marketing—see also *particular crops*—
 flowers, 374j
 fruit and vegetables, 2303m, 2303v, 2390, 2391a
- Marmor abaca*, 3236
- Marrow—see Squash and Cucurbits
- Massachusetts agric. Exp. Stat., A.R. 1948/49, 1184
- Mathiola*—see Stock
- Mauritius, tobacco growing, 2998
- Maximiliana* spp., oil-bearing palms, 474
- Medicago lupulina*, an orchard cover crop, 92
- Medicinal plants—
 of Africa, 3397
 of Algeria, 3027
Ammi visnaga, 1808w
Artemisia spp., 1796, 1798, 3033
Atropa belladonna, 48g, 1796
 of Australia, 1177, 1178, 3028
 barberry, 952
Brassica juncea, 335
 breeding, 334
 of California, 3025
 camphor—
 basil, 1178
 Cinnamomum camphora, 3352
Canarium luzonicum, 2081
 castor bean—see Castor bean
 composition, soil type affects, 1796
Coumarouna spp., 3356

Medicinal plants (continued)—

- Daphnandra* spp., 2121b, 3030
- Datura stramonium*, 48g
- Duboisia* spp., 1177, 1178
- Erythrophleum* spp., 3389
- Eucalyptus* spp., 1177, 1178, 1801
- Garcinia morelli*, 2085i
- in Gt Britain, 468
- growing in Austria, 1797
- Hydrastis canadensis*, 338
- in India, 3026
- Leonurus lanatus*, 1802
- Lobelia inflata*, 1796
- Luffa* spp., 1800
- Mahonia nepalensis*, 952
- a manual on, 3397
- Rhamnus purshiana*, 3025
- Senecio* spp., 2121k
- soil effect on, 1796
- Strophanthus* spp., 3360, 3361
- Strychnos* spp., 2121j
- Mediterranean, flora of the, 1274t
- Medullary rays, 535i, 573
- Melia azedarach*, 3190
- Melittia cucurbitae*, 269
- Meloidogyne* spp. in peach rootstocks, 2535
- Melolontha*—see Cockchafer
- Melon—see also Cantaloupe and Cucurbits—
 - anthracnose, 847
 - aphid control, 2742
 - bacteriosis of, 2818
 - fly, 730, 1662
 - Fusarium* wilt, 486
 - growing—
 - in England, 467
 - in Russia, 846
 - irrigation, 1264
 - Japanese Southern (*Cucurbita moschata*), 850, 851
 - ladybird control, 1609, 1610
 - magnesium deficiency, 852
 - molybdenum deficiency, 2816
 - Mycosphaerella citrullina* on, 1813
 - nematodes in musk, 1955
 - parthenocarp, 850, 851, 2165
 - pruning, 848
 - rootstock trials, 2165
 - a tetraploid, 2814
 - water—
 - fruit, swellings on, 2817
 - variety(ies)—
 - Congo, 847
 - Missouri Queen, 1257
 - Purdue Hawkesbury, 2815
- Mercury vapour lamp for artificial light, 7, 8
- Mesembryanthemum* spp. for waste land, 2143
- Mesocercus marginatus*, 2739
- Mesquite shrubs, control of, 1573
- Metatetranychus ulmi*—see *Paratetranychus pilosus* and Red spider
- Meteorology—see also Climate and Weather—
 - agricultural, 535e, 1221-1223
- Methyl bromide fumigation—see Fumigation

Mexico—

- black fly in, 3153, 3154
- cacao growing, 1984
- Carya* spp. in, 119a
- Michigan agric. Exp. Stat., A.R. 1948/49, 3448c
- Microbiology, Annual Review of, 480
- Microtus guentheri*, 819
- Mictis profana*, 1931
- Micurin, 4, 5, 1162, 1165, 3407
- Mildew—see also pathogens and hosts—
 - powdery, of ornamental plants, 987g
- Milk yielding trees in India, 3420
- Mimosa pudica* control, 1591
- Mineola vaccinii*, 2588
- Mineral deficiency—see Deficiency, mineral
- Minnesota agric. Exp. Stat., A.R. 1947/48 and 1948/49, 3448d
- Minor element(s)—see also particular elements and crops—
 - deficiency(ies)—
 - in alkaline soils, 2303e
 - in areca palm, 1123
 - in Canada, 120
 - in cashew, 1200
 - in fruit trees, 2166
 - in tobacco, 323
 - manuring with, 1253
 - in plant nutrition, 30, 1154, 2270
- Mint—see also Peppermint and Spearmint—
 - breeding, 1803
 - diseases, 958
- Mississippi agric. Exp. Stat., A.R. 1947/48, 1946/47 and 1948/49, 481, 494e, 3425
- Mistletoe control, 1177
- Mites—see Red spider and hosts
- Molybdenum—
 - content of cider, 2472
 - deficiency—
 - in bean, 258
 - in brassicas, 838, 1637-1640, 2770
 - in lettuce, 1181
 - in melon, 2816
 - in tomato, 1181, 1712
 - determination, 48a
- Monarthropalpus buxi*, 3101
- Monilia—see also Sclerotinia—
 - cinerea, 1469, 1470, 2524
 - fruticicola, 697, 753
 - fructigena, 1469, 1470
 - laxa, 2462
 - roreri, 1055
- Monilinia fruticicola*, 2613
- Moniliopsis aderholdi*, 649, 2172
- Monosteira uncostata*, 740
- Montmorillonite for seed coating, 242
- Moor soils, horticulture on, 458
- Moraeas, a collection of Peacock, 3084
- Morden Dominion exp. Stat., Man., Rep. 1938-46, 2163
- Morocco—
 - citrus growing, 992
 - fruit and vegetable exports from, 3364
 - olive growing, 52, 466

- Morus*—see Mulberry
- Moss—
for fruit storage, 2172
as a rooting medium, 272, 1862
- Mounting medium for microscopic slides, 2292
- Mouse—
control, 776c, 1530, 1566k, 1566 l, 2603, 2604
damage to strawberry and currant, 1529
- Mulberry—
cuttings and layers, 2159, 2329
growing in tropics, 1125
a review, 1125
- Mulching—
apple, 479, 484, 1351, 2368
azalea, 3095
blueberry, 3441
cherry, 1351
chrysanthemum, 2148
coffee, 1064, 1066, 2014, 3227, 3228, 3433
fruit trees, 583, 2383
Hevea, 3257, 3259
limes, 3111
paper for, 3431
pear, 140
raspberries, 1383
rhododendron, 3095
roses, 3431
sawdust for, 2148, 3095
- Mundulea sericea*, a fish poison from, 3029
- Murgantia histrionica*, 1647
- Murray Valley, irrigation in, 2282, 2284
- Musa*—see also Banana—
coccinea, *M. lolodensis* and *M. maclayi*,
3363e
fehi, 3363d
laterita, 435b
peekelii, 3363d
textilis—see also Hemp, Manila—435b
- Mushroom—
composition, 306
Dactylium sp. on, 1186
fly (*Sciara* sp.) control, 885, 1615
fungal competitors of, 2164, 2978
fungus diseases, 2978
growing—
in Holland, 883
in Italy, 2974
mechanization in, 304, 881
scientific advance in, 303, 305
magnesium toxicity, 1186
media for growing, 306, 482, 1174, 2164,
2975, 2976, 3411
Mycogyne "bubble" of, 1186, 2978
nematodes, 3440
pests and diseases, 305, 2979, 2980
Res. Stat., Yaxley, A.R. 1946/48 and 1949,
482, 2164
Sporendonema sp. causes disease of, 884
tray system of cultivation, 882, 2977
Verticillium wilt, 1186
- Mustard—
control, 780
and cress production—see also Salad crops—
1663
- Mycorrhiza—
of fruit trees, 1317
phosphorus uptake by, 2229
- Mycosphaerella*—
brassicicola, 144
citrullina, 1813
fragariae, 650
ligulicola sp. nov., 352
musicola on banana, 408
pinodes, 2831
- Myzus*—
ascalonicus, 2545
cerasi, 1492
ornatus, 2794
persicae, 724, 938, 963, 1550, 1754-1757,
1793, 2548, 2648, 2743, 2794, 2948
- Naaldwijk, Proefstat. Groenten Fruitteelt onder
Glas, A.R. 1949, 2165—see also Zuid
Hollandsch
- Nacoleia octasema*, 1975, 3205
- Narcissus—see also Daffodil and Bulb(s)—
basal rot, 358, 970, 1836, 1852
manganese deficiency, 2153
manuring, 355, 1852, 2153
nematodes in, 360
nitrogen nutrition, 354
Ophiostoma sp. on, 3088
variety trials at Wisley, 3087
- Naringin in citrus fruits, 3164-3166
- Nasturtium*—
Heterosporium sp. on, 3074
officinale and *microphyllum*, 879
- National—
fruit trials at Wisley, 545
Inst. agric. Botany, Cambridge—
A.R. 1948/49, 3426
vegetable trials, 2714
Vegetable Res. Stat., Wellesbourne, War-
wickshire, 798
- Nebraska agric. Exp. Stat., A.R. 1948 and
1947, 483, 3427
- Nectria galligena*—see Apple canker
- Nematodes—
acreage in U.S.A. infested by, 646
in bean, 3428
biological control, 3063
in cantaloupe, 3428
in carrot, 836
in chrysanthemum, 964, 1819
in citrus, 384, 1930, 3163
control, 499, 1546, 1616, 2534, 2536, 2804,
3415
in cucumber, 842, 2804
in floriculture, 3063
in iris, 1847
laboratory methods for work with, 776d
in melon, 1955
in mushroom, 3440
in narcissus, 360
in orange, 384, 1930
in peach, 2535
in potato, 319, 489, 915, 1197, 1771-1773,
2880, 3415

- Nematodes (continued)*—
 and root diseases of garden crops, 2747
 in strawberry, 106
 in sweet potato, 1955, 1956
 in tobacco, 930, 931, 1178, 1197, 3440
 in tomato, 878, 1566i, 1723, 1808i, 2536, 2874
 in walnut, 1485
- Nemesia*—
strumosa, flower colour in, 987h
 a virus disease of, 251
- Neokolla circellata*, a virus vector, 136
- Nephelium*, propagation, 2157
- Netherlands—*see* Holland
- New Guinea—
 agriculture in, 396
Pteridaceae of, 2085c
- New Jersey, fruit growing, 1275
- New Zealand—
 cloche gardening in, 535g
 currant growing, 2395
 Dep. Agric., Hort. Div., A.R. 1948/49, 485
 D.S.I.R., A.R. 1949, 486
 flax, 943, 1805
 quince growing, 50
 ramie growing, 942
 raspberry growing, 612
 strawberry growing, 2407
 tomato growing, 870
- Nezara viridula*, 486, 818
- Nicotiana*—*see also* Tobacco—
rustica—
 for nicotine, 1190, 1782, 3005
 suckers, suppression of, 3014
 tobacco streak virus in, 1788
 spp., rutin from, 959b
- Nicotine—*see Nicotiana rustica* and Tobacco
- Nicotinic acid, synthesis of, 514
- Nigeria—
 Dep. Agric., A.R. 1947 and 1948, 487, 1185
 oil palm growing, 3199
- Nigrospora sphaerica* on banana, 407
- Niobium, absorption of radioactive, 2231
- Nipa fruticans*, sugar and alcohol from, 3359
- Nitraria* spp. for Sahara, 3191
- Nitrite injury to avocado and citrus seedlings, 1017
- Nitrogen—
 anhydrous ammonia a source of, 1178, 1918, 3286
 bacterial symbionts assimilate, 1251
 deficiency—
 in apple, 2166
 in potato, 903
 sawdust causes, 1606
 estimation, 1335, 2264
 fixation, 2228
 manuring—*see also* Manuring—
 after legume crop, 1252
 with urea—*see* Urea
 metabolism in radish root, 2197
 nutrition of green plants, 354
 requirements of soils, determination of, 509
- Nitrogenous—
 fungicides and insecticides, leaf chlorophyll content not affected by, 1349
 plant constituents, 2204
- Nomenclature—
 biological, 3399
 botanical, 1274c, 1274i
- North Carolina—
 agric. Exp. Stat., A.R. 1948, 3428
 agric. Ext. Serv., A.R. 1949, 3448e
- Northern Ireland agric. Res. Inst. Hillsborough, A.R. 1948/49, 494g
- Northern Rhodesia Dep. Agric., A.R. 1948, 494h
- Norway—
 fruit growing, 2316
 parasitic fungi of, 2508
- Nottingham Univ., horticultural research at, 496
- Nursery—
Clinodiplosis sp. in the fruit tree, 169
 fumigation, 1206
 inspection—
 in U.S.A., 1
 in Holland, 556
 management, a manual on, 2130
 planting machinery for, 2296, 2297, 2328
 stock, storage of, 1854
- Nut(s)—*see also individual species*—
 varieties—
 for Canadian prairie, 2163
 a list of, 100a
- Nutgrass (*Cyperus* spp.) control, 232, 241a, 791, 792, 1177, 1591, 3412
- Nutrition—*see also individual plants under nutrition*—
 of plants—
 base saturation of clay materials affects, 24
 mineral, 2303t
- Nyasaland—
 Dep. Agric., A.R. 1948, 3429
 tea growing, 3334
- Nysius ericae*, 1030
- Oak lace bug (*Corythucha* sp.), 3102
- Ocimum*—
basilicum in Australia, 1178
kilimandscharicum for camphor and essential oil, 3352
 spp. as oil plants, 3354
- Oenidin determination, 2121e
- Oidium*—*see under plants and crops*
- Oil—
 babussu (*Orbignya* spp.), 2028
 cardamom, 3353
 cashew shell, 1150, 3355
 coconut, 454
 essential—
Artemisia laxa, 1796
 from bay rum leaves, 432
Camellia japonica, 959i
 cinnamon, 490
Clausena anisata, 1092
 eucalyptus, 3385

- Oil—essential (*continued*)—
 fennel, 959p
 mint, 1803, 3041
 from *Ocimum kilimandscharicum*, 3352
 patchouli, 490
Pectis papposa, 340
Peucedanum ostruthium, 1796
Picea mariana, 3390i
Pittosporum tenuifolium, 959d
 plants, soil type affects composition, 1796
 reviews on, 954, 955, 2121h, 3035
 rose, 370
 sage, 332
 vetiver, 3362
 olive—see Olive oil
 palm—
 colour, 412
Elaeis spp.—
albens type of, 412
 breeding, 1091
Cercospora leaf spot, 3243
Coelaenomenodera sp. on, 2032
 cover crops, 1185
 fruit and bunch analysis, 1185
Fusarium oxysporum wilt, 3244
 growing—
 in Angola, 413
 in Belgian Congo, 3199
 in Nigeria, 487, 1185, 3199
 in the Sudan, 1107
 in Sumatra, 398
 in Venezuela, 474
 investigations at Yangambi, 2157
 manuring, 1185, 1971, 2030, 2031, 3242
pisifera type of, 1091
 selection, 412, 1185
 soils, 3242
 South American (*E. melanococca*), 412
 sterility in, 1091
 thinning, 2029
 transplanting, 487, 1185
 other species—
Corozo oleifera, 474
Macanilla spp., 474
Manicaria spp., 474
Maximiliana spp., 474
Orbignya phalerata, 2028
Scheelea spp., 474
 production in Indonesia, 3241
 plants, other—
Asclepias syriaca, 336
Camelina sativa, 3043
Camellia japonica, 3036
 castor bean—see Castor
Chrozophora plicata, 3354
Euphorbia spp., 3354
Guizotia abyssinica, 2121a
Hyptis spicigera, 3354
Lippia carvioidora, 3040
Ocimum spp., 3354
 okra (*Hibiscus*), 2819
Parinarium laurinum, 3363r
 safflower, 337, 1804, 2121a, 2173, 3044, 3045
 Oil—plants, other (*continued*)—
 sunflower, 2121a
 tallow tree, Chinese (*Stillingia*), 3189, 3363i
Tetracarpidium conophorum, 1185, 3354
 tung—see Tung
 vegetable, preparation, 1176
 Okla agric. Exp. Stat., bienn. Rep. 1946-48, 3448f
 Okra (*Hibiscus esculentus*) seed oil, 2819
 Olive—
 buds replacement, 576
 budding, 1311, 1312
 culture—
 a manual, 1158
 reviews on, 466, 575
 cuttings, 1312, 2330
Euphyllura olivina, 1506
 fermentation, 959p
 flower abortion, 2345
 fly (*Dacus oleae*), 192, 198h, 2660z
 fruit growth, 1334
 grafting, 1198, 1311, 1312
 growing—
 in Argentina, 55
 in Cyprus, 473, 1284
 in France, 51, 2325
 in Italy, 53, 58, 2311
 in Morocco, 52, 466
 in Palestine, 54
 in Russia, 56
 in Tunisia, 62
 throughout the world, 3034
 irrigation, 592
 knot (*Bacterium savastanoi*), 1311
 leaf analysis, 2152
 leaf spot fungus (*Cycloconium* sp.), 144, 701, 2513, 2514
 manuring, 582, 2363
 oil—
 content, 473, 2152
 extraction, 54, 493, 2114
 iodine value, 2361
 production in Italy, 58
 ovule formation, 577
 pests and diseases, 1566d
 phellogen development, 2350
 pollination, 2345
 processing, 2113
 propagation—
 by artificial ovuli, 577
 by ringed suckers, 2330
 residue, a feeding stuff, 456
 root system, 62
 rootstocks, 75
 scale, 1525
 seed germination, 558, 2327
 starling control in, 192
 storage, 493
 varieties in Italy, 1304, 2323
Verticillium wilt of, 2735
 water requirements of, 57
 wild, improving, 1343
 yields, 574

Onion—

- bacterial rot (*Pseudomonas cepacia*), 856
- black mould (*Aspergillus niger*), 1667
- bolting, 1194
- breeding, 279
- bulb storage for seed, 279, 2172
- colchicine and naphthaleneacetic acid treatment, 1808e
- copper deficiency, 855
- disease resistance, 1667, 3440
- fly, 2827
- growing—
 - in England, 278, 3053y
 - in Southern Rhodesia, 1664
 - in Tanganyika, 1190
- growth substance effect on, 854
- juice, growth substances activated by, 280
- leek moth (*Acrolepia* sp.) and mining fly (*Dizygonia* sp.) on, 2827
- manuring, 1190
- neck rot (*Botrytis*), 1667
- photoperiodic reaction, 279
- physiological radiation spectrum of, 9
- pink-root (*Pyrenochaeta terrestris*), 857
- Pythium* seedling rot, 2824
- root respiration, 343c, 343x
- seed production, 245, 853, 1190, 1670
- sets, storage of, 2172
- smudge (*Colletotrichum circinans*), 1667
- smut, 1180
- soilless culture of, 272
- sowing, time of, 1194
- spacing, 1190
- Spanish, 2824
- sulphur requirements, 2274, 2275
- thrips control, 1190, 1670, 2825, 2826
- transplanting, 1666, 2823
- variety trials, the evaluation of, 2822
- weed control, 212, 221-223, 777, 779, 781, 782, 1570, 1579, 1581, 2148
- yellow dwarf virus, 1665

Operophtera brumata—see also *Cheimatobia*—2661h

Ophiostoma narcissi, 3088

Opuntia control, 1577

Orange—see also Citrus—

- biennial bearing, 1915
- black spot disease, 1928
- boron toxicity, 1909, 3138
- “bud-union decline”—see also quick decline—1909
- budding, 1006
- chlorosis, 1920
- Clementine—see Tangerine
- Colletotrichum* infection, 1025
- “creasing”, 1921, 3140
- Diplodia natalensis* on, 3148
- flowering, time of, 1002
- frost damage to leaves, 1020
- fruit—
 - composition, 1009, 3140
 - drop, growth substances control, 1019, 2093
 - size, 3129-3133

Orange (continued)—

- grafting, 1006
- growing in Assam, 995, 1004-1006
- gummosis, 995, 1930
- iron deficiency, 1920, 3139
- irrigation, 1015, 1177, 3132
- Jaffa, 1009, 3137
- juice—
 - composition, 1001, 1009, 1935
 - dehydroascorbic acid content, 3384
 - storage, 1009
- khasi (*Citrus reticulata* and *Chrysocarpa*), 1005, 1006, 1012
- leaf composition, 1011, 3139
- manganese deficiency, 3137, 3139
- manuring, 1012, 1013, 1195, 3132, 3440
- nematodes, 384, 1930
- nitrogen nutrition, 3135
- nutrient translocation in, 1917
- packing, 1018
- Penicillium* spp. on, 1026
- phosphorus deficiency, 3140
- Phytophthora citrophthora*, 384
- potassium deficiency, 3133
- pruning, 1915, 3148
- quality, oil sprays affect, 3162
- quick decline—see also bud-union decline—377, 1023
- root development, 3126
- rootstocks, 1004, 1007, 1909, 1910, 3123, 3138
- salt tolerance, 3138
- scaly butt disease, 1910
- seed germination and viability, 1006, 3121, 3122
- Shamouti, 1009, 3137
- soil—
 - fumigation, 1929
 - management, 3126
 - pH, effect of, 3136
- sour, as rootstock, 3138
- spray residue, 2650, 2653
- storage—
 - composition affected by, 1009
 - rots, 1009
 - spotting in cool, 1025
- thinning, 1915
- trifoliolate—
 - in the nursery, shading, 3123
 - as rootstock, 1007, 1910
- urea application to foliage, 1013
- weed control, 3141

Orbignya phalerata, an oil palm, 2028

Orchard—

- soil management—see also Cover crops, orchard—584, 587, 601d, 2366, 2367
- windbreaks, 2488, 2489

Orchelinum vulgare, 2567

Orchid(s)—

- culture medium, 1829
- fly (*Eurytoma* sp.), 1827
- fumigation, 1827
- photoperiodic response, 1825
- pollination, 1828

SUBJECT INDEX

- Orchid(s) (*continued*)—
 propagation, 1825, 1826
 respiration, 1828
 seed germination, 1829
 susceptibility to ethylene, 353
 Oregon agric. Exp. Stat., A.R. 1948/49, 3431
Orems pruinosus, 3156
 Organic—
 acid metabolism, 2195
 constituents of fruit trees, 2355-2357
Oribata sp. on pear, 2580
 Ornamental—
 plants—*see also below*, shrubs and trees—
 cuttings of, 2147, 3058
 diseases of, 3057, 3425
 frost resistance in, 1811, 1812
 in Indonesia, 397
 pests of, 347, 3057
 photoperiodic reaction of, 7
 powdery mildew of, 987g
 spray injury to, 347, 789, 1857
 shrubs, planting machine for, 2297
 trees—
 fruit set prevented on, 2166
 in India, 985
 propagation of, 20
 for roadsides, 1879e
 and shrubs, hormone spray injury to, 789
Orobanche cernua, 1792
Orthosia hibisci, 1518
Oryctes rhinoceros, 1062, 3223
 Osmotic pressure and cell dimension, 2210
Otiorrhynchus—
fullo, 2739
ligustici, 2739
ovatus, 2561
 spp. on citrus, 1931
sulcatus, 2563
 Overseas Food Corp., sci. Dep., A.R. 1947/48, 488
Ovulinia azaleae, 982, 1858, 1859
 Oxalic acid content of citrus and deciduous fruit, 660
Oxalis control, 2684
 Oxygen supply to roots, 2728

Pachistima canbyi cuttings, 346
Pachysandra cuttings, 1856
 Packing—*see also individual crops*—
 citrus, 2091
 fruit, 2086, 2088
 houses, 2086, 2091
 vegetables, 2088
Paeciliorhynchus latus, 3421
 Pakistan—
 flora of, 3193d
 fruit growing, 1880
 plantation crops of, 1969
 sugar cane growing, 2044
 Palestine—*see also Israel*—
 horticulture in, 497
 olive growing, 54
 Palm—
 candy manufacture, 2121o
 sugar from, 2116
 oil—*see* Oil, palm
Pandemis heparana, 170
 Pansy leaf spot (*Centrospora* sp.), 1830
Pantomorus godmani on vegetables, 253
 Papain, 3386
 Papaw (*Carica papaya*)—
 apocarp in, 3173
 breeding, 1194
 frost damage to, 3105
 growing in Russia, 1942
 leaf curl, 1037
 manuring, 1943
 mosaic, 1943
 phyllody in, 1944
 ripening, 1177
 selection, 1035, 1036
 sex in, 1035, 1194
 spacing, 1943
 storage, frozen pack, 3380
 transplanting, 1036
 varieties—
 Bettina and Improved Petersen, 1187, 1188
 Hortus Gold, 1194
 Paper from banana trash, 3207
 Papilio—
aegeus, 1933
anactus, 1931, 1933
 Paprika—*see* Pepper, red
Paratetranychus—*see also* Red spider—
citri, 3193e
coiti, 1030
pilosus, 1508, 1509, 1526, 2570, 2571, 2573, 2574, 2576, 2577
simplex, 1941
Paria canella, 650
Parinarium laurinum, seed fat from, 3363r
Parlatoria oleae, 1525
 Parsley—
 seed, composition and uses of, 1808y
 weed control in, 227
 Parsnip—
 canker, 2828
 weed control in, 778, 780
 Parthenocarp, induced—*see* Growth substances
 Parthenogenesis in walnut, 1417
Paspalum virgatum for mulching coffee, 1066
 Passion fruit—
 growing—
 in Latin America, 3175
 in New Zealand, 485
 in South Africa, 3174
 interplanted with citrus, 1911
 Patchouli—
 essential oil, 490
 virus diseases of, 3103k
 Pea—
 analysis, 859
 aphid control, 244, 1675, 2834
Ascochyta spp. on, 2831-2833
 bacterial blight (*Pseudomonas pisi*), 2831

Pea (*continued*)—

- canning, 343u, 3410
 - carotene content, 2106
 - dehydration, 2106
 - dry and green weight, 2121f
 - drought resistance, 814
 - foot rot, 1674
 - Fusarium* wilt, 282, 3054f
 - growing—
 - in England, 858
 - in Uruguay, 1671
 - growth substance effect on, 535k, 1180
 - Malacosoma* sp. on, 2739
 - manuring, 859, 2278
 - mildew (*Erysiphe* sp.), 2831
 - mite (*Penthaleus* sp.), 1676
 - mosaic, 3053p
 - moth (*Laspeyresia nigricana*), 244, 2739
 - Mycosphaerella pinodes* on, 2831
 - perennial, 1187
 - Pythium* spp. on, 1673
 - respiration, herbicide effect on, 1594b
 - seed—
 - disinfection, 2830
 - fructose diphosphate fermentation in, 521
 - reducing substances in, 2303o
 - seedling(s)—
 - blight, 1673
 - coenzymes and cytochrome c in, 3053i
 - spray—
 - injury to, 2661c
 - residue, 2751
 - stem blight, 486
 - storage, frozen pack, 2101, 3410, 3438
 - streak virus, 283
 - temperature sums, 1672
 - varieties—
 - for canning, 2829
 - in Holland, 3054j
 - vitamin content, factors affecting, 281
 - vitamin C content, 3383
 - weed control in, 208, 212, 781, 2693, 2695-2697
 - weevil, 1677, 1678, 2739
 - wilt, 959v
- Peach—
- almond hybrid, 1314, 1315
 - anthracnose (*Glomerella cingulata*), 692
 - aphid—
 - green—see *Myzus persicae*
 - mealy (*Hyalopterus* sp.), 1493
 - arsenic soil residue, injury from, 2463
 - black or bacterial spot (*Bacterium pruni*), 695, 1186, 2525
 - blossom thinning, 598, 1344, 1345
 - boron deficiency, 123
 - brown rot, 486, 695-699, 1587, 2522, 2523, 2525, 2613
 - cat-facing, 159, 2542
 - citric acid content, 660
 - Coryneum* blight—see also below, shot-hole—2148
 - crop, estimation of, 2387
 - cuttings, 2437

Peach (*continued*)—

- defoliation, 654
- delayed foliation, 132, 1198, 1431, 1432
- diseases, control of, 1486
- flavour—
 - BHC affects, 1555, 1556
 - sprays affect, 2635
- frost damage to, 671
- fruit—
 - quality, 2391c
 - ripening, growth substance effect on, 2380
 - thinning, 1344
- grafting, 2162
- growing—
 - in Belgium, 1283
 - in England, 1281
 - in Jamaica, 2159, 2160
 - in Pennsylvania, 1282
 - in Switzerland, 542
 - in U.S.A.—see also below, varieties—2144, 2391c
- gum, 2303k
- harvesting, 1362
- iron deficiency, 660
- Japanese beetle, 2556
- leaf—
 - analysis, 26, 1186, 2364
 - anatomy, cold affects, 2660s
 - colour, an index of N status, 1335
 - curl (*Taphrina deformans*), 144, 1180, 2532
 - roller, red-banded, 1566r
- Lecanium corni*, control of, 1566a
- little cherry virus, 1458
- manganese—
 - deficiency, 1426
 - toxicity, internal bark necrosis caused by, 663
- manuring, 90, 2363, 3425
- marketing, 443, 444
- mildew, 1180
- nematode resistance, 2535
- oriental fruit moth on, 173, 174, 738, 739, 2541, 2584
- ornamental, 1297
- oxalic acid content, 660
- pest control, 1486
- "phony" disease, 2500, 3439, 3440
- plum curculio on, 163, 174, 729, 763, 2541, 2553, 2554, 3417
- potassium deficiency, 1348, 2364
- pruning, 86, 594, 596
- root, growth inhibitor secreted by, 2193
- rootstocks, 557, 1314, 1315, 2535, 3428
- salinity of soil affects, 654
- scale control, 745, 1525, 1566a
- seed germination, 557
- shot-hole, 144, 150
- soil management, 3425
- sparrow control, 2607
- spray residue, 2653
- storage—
 - frozen pack, 1296, 3425
 - gas, 1198
 - stericoolers in, 444

SUBJECT INDEX

- Peach (*continued*)—
 tetraploid, 3440
 training, 542
 tree borer, 177, 721, 1515, 2541, 2581, 3428
 varieties—
 for canning and freezing, 1296
 classification of, 3394
 Merrill Beauty, 1295
 Merrill Gem, 1295
 New Jersey, 1294
 Red Haven, 601b
 Solo, 1369a
 virus diseases—*see also above*, little cherry—
 680, 683, 2496
 wart virus, 2501
 water requirements, 2370
 weed control, 236, 1582
- Pear—
Azotobacter rot, 1462
 black spot (*Alternaria kikuchiana*) of Japan—
 ese, 691
 blossom—
 blight, bacterial, 49, 140, 689, 1464, 2163, 2505, 2506, 3425
 weevil, 161, 2564, 2637
 boron deficiency, 655, 3440
 breeding, 1298
Cacoecia rosana on, 2590
 chilling requirements, 1198
 chlorosis, 651, 2467
 copper deficiency, 657, 2470
 cover crops, 92
 decline in northern Italy, 681
 delayed foliation, 132
 exports from U.S.A., regulations on, 1274w
 fire blight—*see above*, blossom blight
 frameworking, 2506
 frost—
 damage to, 671, 2480, 2481
 resistance, 1318
 fruit—
 malformations of, 2461, 2580
 rot, *Azotobacter* sp. causes, 1462
 spray residue—*see below*, spray
 storage—*see below*, storage
 grading, 1274w
 grafting, 77
 growing—
 in Annapolis Valley, Nova Scotia, 543
 in Argentina, 601c
 in Holland, 484
 in Italy, 2308
 in Russia, 548, 549
 in Scotland, 546
 in South Africa, 1198
 in Tasmania, 2304, 2391i
 in U.S.A., 49
 grubs in, 1566v
 harvesting, 2385
 Kieffer (*Pyrus pyrifolia* × *P. communis*), 68, 70
 manuring, 581
 maturity test, 2385
- Pear (*continued*)—
 mealybug (*Pseudococcus* sp.), 735, 2593
 moria disease, 133, 2495
 mulching, 140
 parthenocarp induced in, 1328
Pezicula crataegi on, 1482
 pollination, 1319, 1322
 processing, 457b, 2121v
 pruning, 2374
 psylla, 160, 1519, 1520
 Queensland fruit fly on, 168
 red spider control, 153
 root—
 grafting, 67
 system, 62
 rootstocks—
 apple seedlings as, 67
 Cotoneaster acutifolia, 2339
 dwarfing, 564
 East Malling, 70, 1177
 in France and Switzerland, 2334
 hardy, 564, 2163
 loquat, 2159, 2160
 P. calleryana, 1177
 P. communis and *P. pyrifolia*, 49
 P. ussuriensis and *P. avoidea*, 2163
 quince, 69, 2163, 2172, 2340
 -scion incompatibility, 68-70
 seedling, 67, 70, 71, 1305
 rust, 1180
 sawfly, 1180, 2539
 scab, 707, 713, 1298, 1466-1468, 1566g, 2455, 3422
 scale (*Diapsis leperii*), 2601
 scion rooting in, 2340
 seedlings, raising of, 1305
 soil reaction and chlorosis, 651
 spacing, 484
 spindle bush, 1339
 spray residue on fruit, 2650, 2652, 2653
 spraying, cost of, 185
 stem builders, 1318
 stony pit, 125
 storage—
 cold, 1198, 2172, 2385, 3370
 DDT and parathion do not affect, 758
 DNC affects, 2647
 gas, 1180
 rot control, 3431
 sun scald, 2476
 temperature sums for, 83
 training pyramids, 1339
 tree borer, sinuate (*Agrilus sinuatus*), 162, 198f
 varieties—
 Bartlett, 140
 of Switzerland, 464
 water requirements, 2370
 weed control, 1584
 zinc deficiency, 2470
- Peat—
 fortified, a substitute for farmyard manure, 1347
 garden, the construction of a, 1810

- Pecan**—
 frost resistance, 1412
 growing in U.S.A., 1411
 grubbing, 3440
 nut casebearer, 178, 179, 2660f
 pest control, 179, 1489, 2544
 scab, 714
 weevil, 3417
 xylem and phloem differentiation in, 1412
- Pectin**—
 from citrus peel, 2108
 from tropical fruits and vegetables, 1145
- Pectis papposa*, an essential oil plant, 340
- Pegomya hyoscyami*, 649
- Pellicularia**—
filamentosa, 773, 1095, 3261
koleraga, 3186
- Penicillium**—
digitatum, 1026
italicum, 1026, 3152
 in vine, 2172
- Pennsylvania**—
 agric, Exp. Stat., A.R. 1948/49 and 1948/49
 Suppl. 3, 1186, 3432
 fruit and vegetable growing, 1209
 peach growing, 1282
- Pentalonia nigronervosa*, a virus vector, 3236
- Pentatrichopus fragaefolii*, 2546
- Penthaleus**—
haematopus, 2576
major, 1676
- Penstemon secundiflorum*, frost resistance of, 1812
- Peperita enthysticta*, 410
- Peperomia* spp. in Fiji, 435g
- Pepper**—
 black (*Piper*)—
 growing in Assam, 1127
 piperettine from, 3363t
 red (*Capsicum*)—
Bacillus polymyxa on, 2787
 blight (*Phytophthora capsici*), 2789
 breeding, 1650, 1651, 2784
 damping off, 1963, 2788
 irrigation, 2785
 manuring, 249
 parthenocarp induced in, 2165
 polyembryony in, 1650, 3053z
 selection, 839
 vitamin C content, 390
- Peppermint**—see also *Mint and Spearmint*—
 growing in U.S.A., 3041
 oil yields, factors affecting, 3042
- Perileucoptera coffeella*, 1070
- Perilla**—
 photoperiodic reaction, 2220
 spp., anthocyanin content of, 2200
- Periodicals, new, 2175-2177, 3446, 3447
- Perkinsiella saccharicida*, 3363q
- Peronoplasmodium cubensis*, 2802
- Peronospora**—
ficariae, 1838
leptoclada, 1813
spinaciae, 861
- Peronospora* (continued)—
tabacina, 1612, 1808n
- Persea* spp. as avocado rootstocks, 1887
- Persimmon**, Japanese (*Diospyros kaki*)—
 budding, 1946
Cephalosporium sp. on, 1949
 fruit shape, climate affects, 3104
 growing—
 in central Asia, 1946
 in Russia, 1945
 leaf fall, 3178
 propagation, 1948
 ripening, 1147, 1148
 rootstocks, 1947, 1948
 sex differentiation in, 519
- Peru, sugar cane growing, 1108
- Pest(s)**—see also *individual pests and hosts and under Sprays*—
 control—
 by baits and repellents, 1977
 biological, 1566b, 1722, 1996, 1997, 2063, 2064, 2172, 2173, 2539, 2593, 2660j, 3158-3160, 3193c, 3193i, 3415
 in Germany, 2660r
 in Holland, 183
 Ltd., Cambridge, 1545
 systemic—see *Sprays*, insecticides, systemic
 by ultrasonics, 2458, 3022
 in vegetables, 2140, 2736-2740, 3439
 and diseases in Austria, 1566s
 losses caused by, 1420
 of ornamental plants, 3057
 resistance, genetical basis of, 2594
- Pestalozzia**—
palmarum, 2039
theae, 3346
- Petals**, phosphorus content of, 2199
- Petunia**—
 variety trials, 1824
 a virus disease of, 251
- Peucedanum ostruthium*, 1796
- Pezicula* spp. on fruit trees, 1482
- Pflanzenschutzbestimmungen*, a new periodical, 2175
- Phaedon cochleariae*, 1649
- Phalaenopsis* orchids, vegetative propagation of, 1825, 1826
- Phaseolus**—see also *Bean—multiflorus*, rhythm of leaf movements, 48d
- Phenology** of diseases, 2732
- Philaenus* sp. on strawberry, 1488
- Philippines**—
 coconut growing, 1056
 Manila hemp growing, 404, 3363k
 tobacco growing, 919, 1776
 vegetable growing, 1048
- Phlox** growing in Siberia, 1831
- Phoma**—
citricarpa, 3149
lingam, 1647, 2797
Phomopsis heveae, 424
Phormium tenax, New Zealand flax, 943, 1805
Phorodon humuli, 331

SUBJECT INDEX

- Phosphatase in cucurbit fruits, 1657
 Phosphate—*see also* Phosphorus—
 application with irrigation water, 2279
 deficiency—
 in carnation, 27
 in citrus, 1919
 in orange, 3140
 in tomato, 1972
 in West Indian soils, 1972
 estimation, 1257, 1274u, 2264
 fixation, 1178
 Phosphorus—*see also* Phosphate—
 absorption by tomatoes, 1695
 content of petals, 2199
 deficiency in lemon, 1014
 radioactive, 34, 1694, 1695
 Photoperiod of ornamental plants, 7
 Photoperiodism—
 physiology of, 2219
 plastids a condition of, 10
 a review, 2218
 Photosynthesis, 523, 535j, 1246, 1247, 1274a,
 1274j, 2222-2224, 2228, 2232, 2303h,
 3182
 Phototropism, 2211
Phragmidium rubi-idaei, 134
Phthorimaea blapsigona, 841
Phyllocactus, flower bud initiation in, 7
Phyllocoptes destructor, 1721, 2875
Phyllocoptura oleivora, 3157
Phyllophis fagi, 3102
Phylloxera—*see* Vine, phylloxera
Phymatotrichum omnivorum, 646
Phyrdenus muricens, 1722
Physalis spp. as indicator plants for potato
 virus, 2915, 2919
Phyalospora tucumanensis, 144
 Phytin from dahlia tubers, 953
Phytomonas tumefaciens—*see* Crown gall
Phytomyza ilicis, 3102
Phytophthora—
 cactorum, 566, 2530
 cambivora, 118, 151
 capsici, 2789
 cinnamomi, 1566o, 1896, 1897
 citrophthora, 384, 1930
 erythroseptica, 3321
 fragariae—*see* Strawberry, red core
 infestans—*see* Potato blight and Tomato
 blight
 nicotianae, 930
 palmivora, 399, 2039
 root rot of hop, 328
 rot of citrus fruits, 3150
Picea mariana, essential oil from, 3390i
Pieris—
 brassicae, 1548
 japonica, cuttings, 346
 Pigeon, control of wood, 2608
 Pigments—
 flavonoid, 2202, 2203
 fruit, 1243
 as oxidation-reduction indicator, 1244
 synthesis of carotenoid, 1245
Pimenta—
 racemosa, a source of bay rum, 432
 Puccinia psidii on, 144
 Pine, blister rust on white, 3439
 Pineapple—
 black heart and water blister, 1187
 canning, 411
 chlorosis, 3247
 “crook-neck”, 3246
 fasciation in, 2035
 flowering induced, 3249
 growing—
 in Hawaii, 2129
 in India, 2033
 in Malaya, 2129
 in Queensland, 1187, 3245
 iron—
 absorption, 3248
 deficiency, 3247
 manuring, 3246
 mealybug, 1089, 1090, 2036
 nutrition, 3247
 origin and taxonomy, 411
 packing, 1088, 2085b
 a review, 2035
 sucker planting and spacing, 2158
 Piperettine from black pepper, 3363t
Pirus—*see* *Pyrus*
 Pistachio—
 budding, 3179
 propagation by cuttings and grafting, 493
 Verticillium wilt of, 2735
Pithecolobium spp., djenkolik acid in, 1049
Pittosporum tenuifolium, an essential oil plant,
 959d
 Plant—
 collecting expedition to South America, 1881
 infection, principles of, 2135
 introductions into U.S.A., 3401
 names, etymology of, 3399
 pathology—
 a bibliography, 1566m
 a manual, 1155
 a review, 776f
 protection—
 and agricultural meteorology, 535e
 a bibliography, 1566m
 sociology, 2178a, 2178b
 stem, evolution of herbaceous, 2303s
 Plantain—*see also* Banana—growing in India,
 1979
 Plantation crops—
 in the Caribbean, 472
 of Pakistan, 1969
 a review, 1156
 Planting—*see also* particular crops—
 contour, 585
 fruit trees, 1213, 2295, 2312
 nursery trees, 2328
 row crops, machinery for, 2296
Plasmiodiophora brassicae, 833, 1648, 2878
Plasmopara—
 pygmaea, 1838
 viticola—*see* Vine, downy mildew

- Plastics for preservation of agricultural specimens, 1274g
- Plesiocoris rugicollis*, 2565
- Plowrightia ribesia*, 144
- Plum—*see also* Damson and Prune—
 aphid control, 1493
 breeding, 559
 brown rot, 1469, 1470, 2521
 cherry—
 Pezicula sp. on, 1482
 in shelter belts, 1285
 cover crops, 92
 curculio—*see also* Peach, plum curculio—
 1494, 2552, 3428
 delayed foliation, 132
 flowering delayed by 2,4-D, 3427
 frost—
 damage to, 671
 resistance in, 1318
 fruit drop, growth substances control, 1180
 growing—
 in England, 1369h
 in Scotland, 546
 leaf roller, red-banded, 1566r
 manuring, 2362
 mosaic, 486
 Oregon wild, 3431
 oxidase enzymes, inactivation of, 3390e
 pollination, 1329
 and Prune Congress, Agen 1948, 2167
 Queensland fruit fly on, 168
 red spider, 2574, 2640
 rootstock(s)—
 Brompton, 2172
 in Canadian prairies, 2163
 cuttings, 76
 in Czechoslovakia, 72
 peach as, 1313
 propagation, 76, 1313
 Prunus spp. as, 1315, 2163
 seedling, 63
 a survey, 73
 yield affected by, 74
 sawfly control, 744, 1180, 2172, 2598, 2599, 2618, 2640
 scab (*Cladosporium carpophilum*), 2511
 stem builders, 1318
 storage, cold, 1137, 2089
 stunt virus, 2497
 temperature sums for, 83
 varieties—
 Alma-Ata, 550
 dessert, 1300
 d'Ente, 1301, 1303
 Gehlhaar's Frühzwetsche, 551
 virus diseases—*see also above*, stunt—2496, 2497
 weevil control, 2564
 wound dressings for, 1306
 Plumbagin from *Diospyros* spp., 3176
Plumeria spp., chicle gum from, 2042
Podagaria malvae, 2739
Podosphaera leucotricha—*see also* Apple mildew—1533
- Pogostemon patchouli*—*see* Patchouli
- Poison—
 ivy, control of, 202, 1582, 1585, 1586
 red squill cultivation for rat, 3440
- Poisoning trees, 3425
- Poisonous plants—
 in Rhodesia, 3029
 in Utah, 201
- Pollen—
 germination on artificial media, 1326
 longevity, 535f
 and nectar for bees, 78
 storage, 1325, 1700
 viability, manuring affects, 961
- Pollination—
 by aeroplane, 1321
 apple—*see* Apple, pollination
 artificial, 1322
 by bees—*see* Bee(s)
 by bomb, 1321
 cacao, 1992
 castor bean, 3038
 cherry, 1322
Datura spp., 3032
 fruit tree, 569-571, 1319-1322, 2346
 guayule, 3053 l
 incompatibility in flowering plants, 3
 mango, 1080
 olive, 2345
 orchid, 1828
 pear, 1322
 plum, 1329
Pyrus spp., 1327
 strawberry, 1387
 tobacco, 3003, 3004
 tomato, 1808v, 2853
 walnut, 1415
- Polyanthus narcissus*, 354
- Polychrosis botrana* or *viteana*—*see also* Vine, eudemis—2585, 2586
- Polyploid—*see also* Tetraploid and Triploid—
 plants, 1372, 2253-2256
- Polyploidy, mercury compounds plus growth substances induce, 2256
- Polyporus sulphureus*, 143
- Pomegranate—
 growing in Russia, 555, 1382
 ornamental, 1864
- Pomoideae, origin of 100c
- Poncirus trifoliata*—*see* Citrus, rootstocks and Orange, rootstocks
- Popillia japonica*—*see* Japanese beetle
- Portugal, chestnut growing, 118
- Pot(s)—
 plants—
 algal scum controlled in, 496
 alkalinity and salinity controlled in, 345
 from soil or peat, 22
- Potassium—
 deficiency—
 in carnation, 27
 in citrus, 1919
 in coconut, 2007
 in lemon, 1014

Potassium—deficiency (*continued*)—

- in orange, 3133
- in peach, 1348, 2364
- in potato, 903, 2895, 2896
- in roses, 978
- in tea, 3342

- estimation, 2264, 2267
- uptake by plants, 2727

Potato(es)—

aphid—

- control, 318, 1756, 1761
- resistance, 3054i
- survey, 2947, 2948
- vectors, 1754, 1755, 1757, 1808o

Armillaria mellea on, 316

aubuca virus, 1755

bacterial—

- ring rot, 908, 909, 2926
- wilt, 2925

Bibionid species on, 3101

black—

- leg (*Bacterium phytophthorum*), 649, 1759
- scurf—*see below*, stem canker

blackening of raw, 903

blight—*see also Alternaria solani*—

- control, 314, 911, 1184, 1612, 1761, 1763, 2943
- early harvesting and, 2911
- forecasts, 1221
- rainfall effect on, 2939
- resistance, 6, 476, 489, 1196, 1199, 2938, 2940, 3431, 3440
- sensitivity to infection with, 2941, 2942
- spread of, 1762

bolting, 489, 3422

bordeaux mixture's effect on, 2150

boron deficiency, 308

breeding, 307, 476, 489, 2940, 3054i

click beetle—*see below*, wireworm

clones, maintenance of, 2879

Colletotrichum atramentarium, 144, 2909

Colorado beetle—

- in Austria, 1768
- in Channel Islands, 1767
- control, 1766, 1769, 2949, 2950, 2953-2957, 2962, 3445
- in England, 1766
- feeding habits of, 1770, 2950, 2952
- in Germany, 2951
- resistance, 2949
- sex ratio in, 3054a

composition, 900

copper deficiency, 903, 1731

degeneration of non-virus origin, 2909

digger, 2908

disease(s)—

- control, 1739, 2142, 2880
- phenology, 2732
- resistance, 959r

dormancy—*see also below*, sprouting—

- breaking, 1199, 1729, 1730, 2972
- and oxygen content of tuber, 2971
- prolonged by growth substance treatment, 450, 895-897, 1736-1738

Potato(es) (*continued*)—

- dry rot (*Fusarium caeruleum*), 317, 2927-2929
- flavour, BHC and, 2963, 2965
- flea beetle, 913, 1761, 2958, 2962, 3053e, 3431

frost protection, 1439

- fungicides—*see also above*, diseases—for, 1764, 1765

Fusarium caeruleum diseases—*see above*, dry rot

glutathione content, 2972

grading, 2880, 3440

grafting, 888

growing—

- in Austria, 2887
- in heath soil, 1731
- in India, 2890-2893, 3420
- on moorland soils, 458
- in Scotland, 2881
- in Tanganyika, 1190
- two crops annually, 1199
- in U.S.A., 3053o

growth substance—*see also above*, dormancy—content of virus-diseased, 1741

hair sprout, 2909

harvesting, 310, 479, 1735, 2880, 2908, 2911

haulm destruction, 315, 912, 2880, 2910, 2911

iron deficiency, 2895

irrigation, 1733, 1734

ladybird control, 1609, 1610

"late-breaking" virus, 3431

leafhopper control, 1761, 2962

leaf roll, 311, 1744-1749, 1753, 2914-2916, 3053a, 3053x, 3431

liming, 2905

magnesium deficiency, 903

manganese—

- deficiency, 2272
- toxicity, 1732

manuring—

- general, 27, 31, 308, 309, 479, 890, 900-902, 959x, 1181, 1731, 1744, 1745, 2149, 2890, 2891, 2897-2903, 3428
- green, 904, 1758

marketing, 3053k

mosaic, 1753, 3053x

necrosis, phloem, 1749, 2916

nematodes, 319, 489, 915, 1197, 1771-1773, 2880, 2944-2946, 3415

nitrogen—

- content, 452
- deficiency, 903
- nutrition, 903, 1744, 2895

nutritive value, 452

pest control, 2880

planting—

- mechanized, 889, 902, 2906, 2907
- time of, 2887

potash deficiency, 903, 2895, 2896

quality, 890, 898, 1727, 1728, 2880, 2896, 2897

a review and bibliography, 2880

ring rot (*Corynebacterium sepedonicum*)—*see above*, bacterial

- Potato(es) (*continued*)—
 scab, 479, 890, 959o, 959s, 1758, 1760, 2905, 2920-2924
 seed—
 cutting, 317, 909, 2884, 2887, 2893
 disinfection of, 317, 910
 evaluation of, 1729, 1730
 “eyes” as, 959 l
 germinating power, 892
 growing—
 in France, 2886, 2888
 in Holland, 1725
 in India, 1742, 1743
 in Russia, 2904
 in South Africa, 1199, 2889
 in Spain, 3054b
 in Switzerland, 3445
 roguing, 1742
 storage of, 449, 894, 895, 2967-2970
 soil pH, yields affected by, 2905
 spacing, 890, 2890, 2891
 specific gravity determination, 1727
Spondylocadium sp. on, 2920
Spongospora subterranea on, 910, 2920, 2932, 2933
 spraying machine for, 2964
 sprouting—*see also above*, dormancy—
 anomalies in, 891
 stem canker (*Rhizoctonia solani*), 2920, 2930, 2931
 storage—*see also above*, seed, storage of—
 general, 893, 1221, 2880
 sucrose formation in, 448
 trials in Scotland, 3053j
 tuber—
 chlorophyll content of, 2894
 cytochrome oxidase in, 3053m
 formation, 891, 899, 1760
 intercellular spaces of the, 3053c
 osmotic pressure in, 2210
 respiration, 2973
 size—
 and virus incidence, 2913
 and yields, 2884
 worm (*Gnorimoschema operculella*), 2959, 2964
 tyrosine contents and tyrosinase activity, 903
 variety(ies)—
 Canus, 959t
 in Eire, 2882
 in France, 2883, 2885, 2886
 in Holland, 3054k
 testing, 959m
 in U.S.A., 887
 Yampa, 959s
 virus—*see also above*, aucuba, growth
 substance, “late breaking”, leaf roll,
 mosaic—
 A., 1755
 diseases—
 in Czechoslovakia, 2912
 physiology of, 905
 spread of, 1740, 1753, 1754
- Potato(es)—virus—diseases (*continued*)—
 and tuber size, 2913
 various, 1741, 1753, 1755, 3053x, 3431
 serological method of study, 1808c, 1808d, 1808z
 X, 311, 312, 906, 907, 1750-1752, 1808d, 2917, 2918, 3053s
 Y, 313, 1755, 1808z, 2919
 vitamin C content, 2966, 3382, 3383
 wart disease, 2935-2937, 3053r
 water requirements, 525
 weather effect on, 1726
 weed control, 212, 217, 224, 777, 2698, 2882, 2898, 3427
 wireworm control, 320, 914, 916, 2748, 2960, 2961
 Yearbook 1949 and 1950, American, 886, 3053d
 yields, 890
 Poultry, spray injury to, 1558
Pratylenchus pratensis, 1485
 Preservation—*see also separate crops under*
 canning, etc., and storage, frozen pack—
 of agricultural specimens, 1274g
 of phytopathological specimens and fruits, 2291
 of stakes and fences, 41, 535c, 2382
 Pretoria agric. Res. Inst., A.R. 1948/49, 1195
Primula—
 kewensis, 1879c
 malacoides, 2172
 obconica, 961
Pringlea antiscorbutica, vitamin C content of, 832
Pristiphora geniculata, 1172
 Privet cuttings, 636
Proceras sacchariphagus, 1118
 Propagation—*see also under plants and methods*
 —manuals on, 3400, 3406
Protomphytus pallipes, 1815
Protoparce sexta, 1721, 2875, 3023
 Prune(s)—
 blossom thinning by sprays, 2148
 classification of, 2322
 Congress, Agen, 1948, Plum and, 2167
 delayed foliation, 1198
 plum curculio, 1494
 preharvest drop, 1427
 Spilonota ocellana on, 2591
 storage, 437, 2089
 variety d'Agen, 1301, 1303, 1427
 water requirements, 2370
 Pruning—
 frost damage in fruit trees affected by, 130
 fruit trees, 1336, 1337, 2377
 power, 594
 renewal method of, 595
 “wedge”-method of, 1338
 wounds—
 callusing over of, 1337
 dressings for, 563, 1306
 Prunings, brush rake for, 1342
Prunus—
 armeniaca var. *alba*, 552

- Prunus* (continued)—
 avium—
 mycorrhiza in, 1317
 as a rootstock for cherry, 1316, 2343
cerasifera, 1482
lusitanica, 1302
 spp. as rootstocks, 1315, 2163
tomentosa an indicator for necrotic ring spot, 776b
- Pseudococcus*—
adonidum, 1030
brevipes, 1089, 1090, 2036
citri, 1550
maritimus, 2593
 sp. on pear, 735
- Pseudomonas*—
 antibiotic action of spp. of, 139
cepacia n. sp., 856
mors-prunorum, 2504
pisi, 2831
prunicola, 2504
solanacearum, 873, 874
syringae, 2505
tabaci, 1533
tumefaciens—see Crown gall
- Pseudoperonospora*—
cubensis, 1612
humuli, 329, 2988
- Pseudopeziza ribis*, 144
- Psila rosae*—see Carrot fly
- Psylla pyricola*, 160
- Psylliodes*—
affinis, 2958
attenuata, 331
- Pterandrus rosa*, 730, 1197
- Pteridaceae of New Guinea, 2085c
- Pteronox ribesii*, 649, 1521
- Puccinia*—
asparagi, 2755
carthami, 1804
kuehnii, 3319
menthae, 951
pruni-spinosae, 1484, 1838
psidii, 144
ribis, 3415
sacchari, 3318
- Puerto Rico, sugar industry, 2085f
- Pulses in India, 1970
- Pulvinaria* spp., control of, 3102
- Pumpkin—see also Cucurbits—
 abnormal development of, 1679
 carotene and vitamin C content, 390
 seed germination, 17
- Pyrausta nubilalis*, 244, 1686
- Pyrenochaeta terrestris*, 857
- Pyrethrin—see also Pyrethrum, pyrethrin—
 1564, 2657
- Pyrethrum—
 analysis, 2660o
 Board, Kenya, A.R. 1949, 2168
 growing—
 for cut flowers, 1832
 in India, 775
 a review, 776i
- Pyrethrum (continued)—
 manuring, 1971
 polymerized, 2660h
 pyrethrin—
 estimation, 1176, 2658
 extraction, 197, 776g
 selection, 1564
- Pyrus*—see also *Malus* and Apple, breeding and rootstocks—
avoidea, 2163
calleryana, a pear rootstock, 1177
communis—
 mycorrhiza in, 1317
 and *P. pyrifolia* as pear rootstocks, 49
piraster nivalis, 2320
serotina, 1298
 spp., pollination of, 1327
ussuriensis, 2163
- Pythium*—
aphanidermatum, 1808s
arrhenomanes, 3332
 damping-off in vegetables, 1180
debaryanum, 649
irregulare, 2824
ultimum, 962, 1673
vexans, 2079
- Quadraspidiotus perniciosus*—see San José scale
- Quarantine, plant, 2660a
- Queensland—
 Acclimatisation Soc., A.R. 1948/49, 1188
 avocado growing, 388, 3107
 Dep. Agric., A.R. 1948/49, 1187
 horticulture in, 989, 3197
 pineapple growing, 3245
 Sugar Exp. Stat., Bureau of, A.R. 1949, 1171
- Quercetin, 2202, 2203
- Quick decline—see Citrus and separate citrus crops
- Quince—see also Pear, rootstocks—
 fruit drop controlled by growth substances, 1180
 growing in New Zealand, 50
 rootstocks, 63
 temperature sums for, 83
 varieties in Russia, 1299
- Quinine separation, 3387
- Rabbit—see also Rodent—control, 2603
- Radio-active isotopes—see also Phosphorus,
 radio-active—530, 1274x, 1923, 2161,
 2228-2232, 2303u, 2648
- Radioactivity, plant response to, 529, 2227, 2228
- Radiography in botany, micro-, 2302
- Radish—
Alternaria sp. on, 2836
 embryo culture, 284
 physiological radiation spectrum, 9
 root respiration and N metabolism, 2197
 seed—
 disinfection, 2836
 size related to yield, 2717

- Radish (*continued*)—
 spray injury to winter, 2835
 sulphur content, 2274
 tetraploid, 2254
Verticillium wilt of, 2735
- Rain, clouds stimulated to produce, 504, 1217
- Rainfall in Gt Britain, 1421
- Raisin—*see* Vine, raisin
- Raisin tree, Japanese (*Hovenia dulcis*), 1965
- Rake, standardized specification of, 2299
- Ramie (*Boehmeria* spp.), 405, 942
- Rasāñjana from barberry and *Mahonia nepalensis*, 952
- Raspberry—
Agrilus sp. on, 1495
 black blotch, 661
 -blackberry hybrid, 103, 3422
 boron deficiency, 486
 cane—
 midge, 1566p, 2602
 spot, 1477
 canning, 3410
 curly dwarf virus, 686
 diseases in Scotland, 776a
 flowering, growth substance retards, 2416
 frost—
 damage to, 1383, 2479
 resistance of, 1184
 growing—
 in New Zealand, 612
 a review, 2400
 in Scotland, 611, 2401
 in U.S.A., 613, 644b
 iron toxicity, 661
Leptosphaeria coniothyrium on, 144
 manuring, 486, 3415
 mild streak virus, 1456
 mosaic resistance, 686
 mulching, 1383
 orange tortrix (*Argyrotaenia* sp.), 2589, 3431
Orchelimum vulgare on, 2567
 rust, 134, 3431
 slug damage, 2602
 storage—
 of fresh, 3371
 frozen pack, 2101
 temperature sums for, 83
 variety(ies)—
 East Malling, 2403
 Lloyd George, 2405
 reviewed, 2402, 2404
 trials—
 randomized blocks for, 2189
 in Sweden, 104
 in U.S.A., 1370
 virus—*see also above*, curly dwarf, mild streak and mosaic—leaf deformation caused by, 679
 Willamette mite on, 719
- Rat—*see also* Rodent—control, 2065, 3333
- Red currant—*see also* Currant—
 leaf spot (*Gloeosporium ribis*), 606
 rust, 3415
- Red currant (*continued*)—
 varieties—
 classification of, 606
 Heinemann's Rote Spätlese, 105
- Red spider mite(s)—
 control—
 by azobenzene, 1615, 2578
 biological, 2539
 by dormant sprays, 188, 719, 1526, 1873, 2619, 2766
 by HETP and TEPP, 719, 2574, 2578
 by parathion, 172, 718, 719, 772, 1180, 1508, 1615, 2574, 2575, 2578, 2619, 2640, 2754
 by sulphur or lime-sulphur, 1030, 1721, 1941, 2578, 2875
 systemic, 348, 755, 1547, 1550, 3411
 by various acaricides, 152, 153, 711, 717-719, 772, 980, 1509, 1526, 1547, 1566n, 1872, 1873, 2540, 2570-2573, 2576, 2578, 2619, 2660u, 2753, 2765-2767
 and DDT, 717, 772, 1721, 3193e, 3421
 warning service, 1423
- Rehder, life of Alfred, 2184
- Repellents for insect pest control, 1977
- Report—*see also* Annual Report—
 biennial Okla agric. Exp. Stat. 1946/48, 3448f
 Costa Rica Min. Agric. and Ind. of, 2nd Rep., work of, 3412
 F.A.O. Oilseed Mission for Venezuela, 474
 France d'Outre-Mer, Off. Rech. sci. colon. 1946 and 1947, 475
 Frederick Dominion exp. Stat., N.B. 1937-1947, 476
 Hoofddorp Fruitteelt—Demonstratiebedrijf 1938-1948, 484
 Illustr. Stats, central Exp. Farm, Ottawa 1938-1947, 2149
 Morden Dominion exp. Stat., Man. 1938-1946, 2163
 Scottish Soc. Res. Plant Breeding, 489
 Swift Current Dominion exp. Stat. 1937-1947, 1189
 Waite agric. Res. Inst. 1943-47, 2173
- Respiration—*see also* Apple, storage—
 of fruits, postharvest, 3365
 plant, 32, 526, 2194, 2197, 2208, 2222, 2223, 3053u
- Reviews, book—
 Andrews, F. W., The flowering plants of the Anglo-Egyptian Sudan, Vol. I (*Cycadaceae-Tiliaceae*), 3391
 Ass. Brit. Insecticide Manufacturers. British insecticides and fungicides for crop protection. Directory 1950, 2122
 Bates, G. H., Weed control, 2123
 Bedall, J. L., Hedges for farm and garden, 3392
 Bewley, W. F. Commercial glasshouse crops, 3393
 Biological Council, A list of abbreviations of the titles of biological journals, 2124
 Bisset, K. A., The cytology and life-history of bacteria, 2125

Reviews, book (*continued*)—

- Brewer, H. C., Bibliography of the literature on the minor elements and their relation to plant and animal nutrition, 154
 Brüne, F., Die Praxis der Moor- und Heidekultur, 458
 Butler, E. J., and Jones, S. G., Plant pathology, 1155
 Caillavet, H., and Souty, J., Monographie des principales variétés de pêcheurs, 3394
 Canadian Cttee on Food Preservation. Collected papers of the Canadian Cttee on Food Preservation, Vol. 4, 2126
 Chandler, W. H., Evergreen orchards, 1156
 Charley, V. L. S., and others, Recent advances in fruit juice production, 1157
 Chiesa Molinari, O., and Nicoletta, H. G., Tratado general de olivicultura, 1158
 Childs, H., A plan of economic development for Sierra Leone, 459
 Chilean Iodine Educ. Bureau. Iodine and plant life, 2128
 Cooke, F. C., The pineapple industry of the Hawaiian islands, 2129
 Cox, J. F., and Jackson, L. E., Crop management and soil conservation, 460
 Crafts, A. S., Currier, H. B., and Stocking, C. R., Water in the physiology of plants, 1159
 Crowther, D. S., Fruit for small gardens, 3395
 Darlington, C. D., and Mather, K., The elements of genetics, 3396
 Duruz, W. P., Principles of nursery management, 2130
 Eley, G., In your garden. A selection of broadcast talks, 2131
 Europa Publications Ltd., The world of learning 1950, 2132
 Faulkner, R. P., The science of turf cultivation, 2133
 F.A.O., Fibres, 461
 Forest Service, U.S. Dep. Agric. Woody-plant seed manual, 1160
 Free, M., All about house plants, 2134
 Gäumann, E., Principles of plant infection, 2135
 Githens, T. S., Drug plants of Africa, 3397
 Hagedoorn, A. L., Plant breeding, 3398
 Hilkenbäumer, F., and others, Anzucht von Obstbäumen mit Veredlungsverfahren, 1161
 Huxley, J., Soviet genetics and world science, 1162
 Hyams, E., The grape vine in England, 462
 Jaeger, E. C., A source book of biological names and terms, 3399
 Jouis, E., Le Graverend, E., and Régnier, R., Les vergers de grand rendement. Pommier—poirier—prunier—cerisier, 2136
 Kessler, H.—
 Apfelsorten der Schweiz, 2nd edit., 463
 Birnsorten der Schweiz, 464
 King, E. J., Propagation of plants, 3400

Reviews, book (*continued*)—

- Klose, N., America's crop heritage, 3401
 Kobel, F., and Spreng, H., Neuzeitliche Obstbautechnik, 465
 Kovalj, T. A., The struggle against drought, 1163
 Kramer, P. J., Plant and soil water relationships, 1164
 von Loesecke, H. W., Bananas, 3402
 Macself, A. J. (Sanders, W. T.), Sanders' encyclopaedia of gardening, 3404
 Matheson, J. K., and Bovill, E. W., East African agriculture, 2137
 Mičurin, I. V., Selected works, 1165
 Mission Horticole, Service de l'Horticulture, Rabat, L'olivier au Maroc, 466
 Mundkur, B. B., Fungi and plant disease, 2138
 Newsham, J. C. (Shewell-Cooper, W. E.), The horticultural notebook, 3403
 Oldham, C. H., Vegetable grower's guide, 2139
 Park, B., Roses, 3405
 Prockter, N. J., Simple propagation, 3406
 Quarrell, C. P., Intensive salad production, 4th edit., 467
 Ranson, F., British herbs, 468
 Rounce, N. V., and others, The agriculture of the cultivation steppe of the Lake, Western and Central Provinces [Tanganyika], 1166
 Sankewitsch, E., Die Arbeitsmethoden der Mitschurinschen Pflanzenzüchtung, 3407
 Schøyen, T. H., and Jørstad, I., Skadedyr og sykdommer på grønnsakvekstene, 2140
 Southwick, L., Dwarf fruit trees, 1167
 Thompson, C. R., Good fruit farming, 469
 Thorne, D. W., and Peterson, H. B., Irrigated soils, 3408
 U.S. Dep. Agric., Trees. Yearbook of Agric. 1949, 470
 Vanselow, A. P., and Liebig, G. F., Jr., Spectrochemical methods, 2141
 West, T. F., and Campbell, G. A., DDT, the synthetic insecticide, 471
 Weston, W. A. R. D., Diseases of potatoes, sugar beet and legumes, 2142
 Whyte, R. O., and Sisam, J. W. B., The establishment of vegetation on industrial waste land, 2143
 Woodcock, H. B. D., and Stearn, W. T., Lilies of the world, 3409
Rhagoletis—see also Cherry fruit fly—*cerasi*, 732
Rhamnus purshiana, a medicinal plant, 3025
Rhizoctonia—
 bataticola, 2007
 damping off in vegetables, 1180
 solani, 139, 1963, 2007, 2147, 2172, 2788, 2930, 3346
 in U.S.A., 646°
 Rhodesia—see also Northern—sugar cane growing, 3363s

- Rhododendron—
 bud blast, 1865
 cuttings, 346
 grafting, 2147
 layering, 3091
 sawdust for, 3095
 silver-leaf disease, 3097
- Rhubarb—
 growing in Holland, 1680
Mesocercus sp. on, 2739
 origin of, 1680
- Rhus*—
radicans—see Poison ivy
 spp.—
 diseases of, 958
 tannin from, 2119
- Rhynchophorus ferrugineus*, 3223
- Ribes*—see also Currant—
odoratum, 2399
 spp., control of, 203, 3439
- Roadside trees, 1879e
- Rodent control—see also separate rodent
 species—747, 1531, 2661f, 2661j
- Root—
 cation exchange of surface, 1241
 crops, weed control in, 1579
 cuttings, 1006
 death diagnosed, 40
 diseases of garden crops, nematodes and,
 2747
 distribution of fruit trees, factors affecting,
 2367
 exudates, growth stimulated by, 2237
 grafting of fruit trees, 67, 561
 growth—
 growth substances affect, 535b
 inhibitor secreted by, 2193
 and oxygen supply, 2728
 stimulation of, 1242
 hairs, water absorption by, 524
- Rootstock(s)—see also particular plants—
 disease and pest control in seedling, 2615
 -scion incompatibility, foliage affects, 1659
- Rosa*—
gallica, 364, 370
multiflora, as a hedge, 363
- Rose—
 aphid control, 1550
 black spot (*Diplocarpon rosae*), 1874
 bottom break production, 374b, 374e
 collection at John Innes hort. Inst., 3422
 crown gall, 979
 cuttings, 364, 365, 367, 370
 defoliation, 369, 3431
 ethylene injury, 1874
 flower—
 colour determination, 1866
 production, temperature effect on, 1870
 vascular bundles of, 2225
 frost damage to, 3100
 growing in Gt Britain, 3405
 hedges, 363
Leptosphaeria coniothyrium on, 144
 manuring, 2147, 3098, 3100
- Rose (*continued*)—
 mildew, 1587, 1813
 mulching, 3431
 oil, 370
 potassium deficiency, 978
 pruning, 987c
 red spider, 980, 1872, 1873
 root—
 disinfection, 979
 oxygen requirements, 366, 368, 1869
 studies, 1867-1869, 1871
 rootstocks, 1867
 spray injury to, 347
 storage of nursery stock, 1854
 transplanting, 3099, 3431
 vitamin C content, 3383
 watering, 374i
- Rotation crops, succeeding crop affected by
 root system of, 243
- Rothamsted exp. Stat., Rep. 1948, 1181
- Rourea erecta* root extracts induce variation in
 plants, 1976
- Rubber (*Hevea*)—
 breeding, 3252, 3253
 brown bast, 425
 budding, 1173, 3440
 clones in Ceylon, 414, 416, 420
 copper in soil, excessive, 3259
 cover crops for, 417
 derris and *Tephrosia maxima* interplanted
 with, 417
 double working, 2157
 felling, 2038
Fomes lignosus root rot, 417
 fungicides for, 2039
 growing—
 in Ceylon, 435d
 in Liberia, 3250
 in Madagascar, 3251
 in Sumatra, 398
Helminthosporium sp. on, 3260
 land clearance for, 415
 latex—
 composition, 421
 creaming agents, 423, 1152
 extraction, sterile, 422
 preservation, 1130a, 1173
 processing, 435d, 1173, 3262-3264
 leaf blight, South American, 3252, 3253
 manuring, 1173, 3255-3258
 mulching, 3257-3259
Oidium leaf disease, 1173
Pellicularia filamentosa leaf spot, 1095, 3261
Phomopsis heveae on, 424
Phytophthora disease, 2039
 pink disease (*Corticium salmonicolor*), 2039
 production cost, 415
 Res. Bd Ceylon, Rep. 1948, 1173
 rubber—see also above, latex—grading, 2040
 seedlings, clonal, 414, 416, 420
 selection, 2037, 2157, 3254
 soil pH affects growth, 418
 tapping systems, 419, 1094
 thinning, 2157

- Rubber (*Hevea*) (continued)—
 topping seedlings, 1093
 yields, 420
- Rubber (other than *Hevea*)—
 manicoba and mangabeira from *Manihot*
 spp. and *Hancornia speciosa*, 426
 plants—see also Latex plants—
Euphorbia spp. as, 3265
 guayule—see Guayule
Hancornia speciosa, 426
 kok-saghyz—see Kok-saghyz
Manihot spp. as, 426
- Rubidium estimation, 2265
- Rubus laciniatus*, 1480
- Rudbeckia bicolor*, photoperiodic reaction, 3075
- Rumex hymenosepalus* for tannin, 3438
- Russia—see U.S.S.R.
- Rutabaga, vitamin C content, 1808u
- Rutin—
 from *Eucalyptus* spp., 1177, 1178, 1801
 from *Nicotiana* spp., 959b
- Saccharose, synthesis of, 2192
- Safflower—
Alternaria blight, 950
 diseases, 958, 3440
 growing—
 in Australia, 2173
 in France, 949, 3044
 in U.S.A., 337, 3045
 rust, 1804
 seed—
 disinfection, 950
 oil, 2121a
- Sage—
 control of black, 2162
 selection for oil content, 332
- Sainfoin, manuring, 31
- Saintpaulia*—
Botrytis blight of, 969
 a Swiss variety, 1833
- Saissetia*—
oleae, 1931, 2173
 sp. on clove, 3219
- Salacca* spp. in Malaya, 2085d
- Salad crops in England, 466, 1597, 1633
- Salinity in pot plants, control of, 345
- Salt—
 injury to plants, 528
 tolerance of plants, 1604
- Salvia*—
occidentalis inhibits coffee growth, 2011
sclarea, 966
splendens, viruses of, 3103k
- Sampling in agricultural trials, 2303g
- San José scale, 157, 158, 757, 1524, 1526, 2172, 2601
- Sand culture—see Soilless culture
- Sanninoidea exitiosa*, 177, 2541
- Santonin from *Artemisia* spp., 3033
- Sapium sebifera*, stillingia oil from, 3189, 3353i
- Sapodilla (*Achras zapota*), 2041, 2159
- Sapote, frost damage to white, 3105
- Sarawak Dep. Agric., A.R. 1948, 2169
- Saw, chain, for cutting trees, 3168
- Sawdust—see also Mulching—
 applied to soil, 3096
 nitrogen deficiency caused by, 1606
- Scale—see also San José and hosts—
 Glover's, 3193c
 insects—
 control of, 3439
 in Germany, 1566x
 terrapin, 1566a
- Scheelea* spp. oil-bearing palms, 474
- Sciara* sp. in mushroom, 885
- Scientific—
Horticulture, Vol. 8 1939-47, 1179
 papers, preparation of, 2185
- Sclerophoma mali*, 2531
- Sclerospira sacchari*, 3322
- Sclerotinia*—see also *Monilia*—
 collar rot of tobacco, 486
fruticola, 695, 2522, 2523, 2629
frutigena, 2519-2521, 2559
laxa, 2526
libertiana, 1533
 rot of carrot, 3377
sclerotiorum, 816, 935, 2762, 2779, 3053n
 sp. on tea, 3421
vaccinii, 1481
- Sclerotium*—
bataticola, 3151
tuliparum, 977
- Scolytus rugulosus*, 1502, 2560
- Scotland—
 fruit growing, 546
 horticulture in, 2179
 raspberry growing, 611, 776a, 2401
 strawberry growing, 622, 776a
- Seaweed—
 composition, 3052
 products, quality of, 341
 residues, humus from, 1259
- Sechium edule*, 434, 1038
- Seed—
 coating to increase size, 242, 2301, 2720
 colchicine treatment of, 2253
 disinfection—
 by electronic heating, 1542
 by spraying while planting, 1630
 by various chemicals, 187, 291, 805, 830, 842, 845, 950, 1601, 1635, 1646, 1647, 1682, 2719, 2734, 2830
 fertilizer application with, 1258
 fumigation, 2099
 germination—see also below, testing—
 2,4-D affects, 790
 inhibitors of, 17, 518, 2678
 stone fruit, 2326
 temperature effect on, 2286
 ultrasonics accelerate, 2458
 a gravity separator for small lots of, 1273
 pelleting, 242, 2301, 2720
 production—
 artichoke, 820
 cabbage, 245, 1645, 1646, 2773, 2777, 2779, 3431

- Seed—production (*continued*)—
 - carrot, 1654, 2792
 - castor bean, 1808f
 - cauliflower, 837, 1644
 - centipede grass, 1878
 - cucumber, 271, 3431
 - flower, 1183
 - horseradish, 333
 - isolation requirements, 3422
 - leek, 853
 - onion, 245, 853, 1190, 1670
 - tobacco, 2150
 - tomato hybrid, 2853
 - vegetable, 343i, 800, 801, 959g, 1183, 1599, 1600
 - woody plants, 1160
- quality in New York, 2288
- size in vegetables related to yields, 2717
- storage, 437, 1885, 2286, 3121, 3212
- testing—
 - in Austria, 1272
 - cold for evaluation of vitality and disease resistance, 1682
 - of large, 2287
 - by spectrophotometer, 246
 - Station, Danish, A.R. 1948/49, 3053g
 - in Sweden, 1271
- treatment—*see also above*, disinfection and fertilizer—
 - with growth substances and vitamins, 1652, 1780
 - with insecticides, 2749, 2750, 2752
- Seedless fruits, production of, 535h
- Seedlings, black leg of, 1608
- Selenium for pest control, 348, 359, 1184
- Senecio* spp., alkaloids from, 2121k
- Septoria*—
 - anemones* var. *coronariae*, 1838
 - lycopersici*, 301, 302, 1716
 - spot of citrus, 3147
- Severinia buxifolia*, a citrus rootstock, 1007
- Seychelles Dep. Agric., A.R. 1948, 490
- Shaddock—
 - Cuban, a citrus rootstock, 1007
 - taxonomy and varieties of, 3115
- Shade tree(s)—*see also particular crops and plants*—
 - Conference, National, Combined Proceedings 25th, 2166
 - diseases of, 433
 - in U.S.A., 470
- Shallot—
 - aphid (*Myzus ascalonicus*), 2545
 - bolting and spacing in, 250
 - growing in England, 278
 - size at planting and spacing, 2837
- Shea butter from *Butyrospermum parkii*, 2082, 2083
- Shelter belts—*see* Windbreaks
- Shrubs—*see also* Ornamental—for hedges, dwarf, 987i
- Siberia—
 - apple growing, 1278
 - fruit growing, 1279
- Siberia (*continued*)—
 - phlox growing, 1831
 - vegetable growing, 802
- Sierra Leone, plantation crops of, 459
- Silica sand, a rooting medium, 346
- Sisal—
 - diseases, 3413
 - manuring, 1971, 3412
 - waste, by-products of, 2019
- Slug—
 - control, 748, 1814
 - damage to raspberry, 2602
- Small fruit(s)—*see also separate species*—
 - containers for, 603
 - growing—
 - in Canada, 101
 - in England, 101
 - in New Zealand, 485
 - in Tasmania, 602
 - in U.S.A., 101
 - manuring, 499
 - propagation of, 102
 - varieties for Tennessee, 2452a
 - virus diseases of, 2660x
- Snail—
 - control, 180
 - giant African (*Achatina fulica*), 428, 940
- Snapdragon—
 - Athalia* sp. on, 1815
 - manuring, 350
 - rust, 960
 - variety trials at Wisley, 960
- Sodium as a nutrient, 860, 1636
- Soil—
 - auger, 2293
 - blocks—*see* Pots, soil
 - calcium determination, 535d
 - clay, mechanical cultivation of, 1973
 - colloid, crop response to, 24
 - conservation, 460, 3227
 - erosion—*see also above*, conservation—
 - control, 2726, 3412
 - in orchards, 94, 585, 587
 - in tomatoes, 3430
 - by wind, 1453
 - fen and moorland, 458
 - fluorine retention in, 26
 - fumigants—*see* Fumigation and below, Sterilization
 - fungi, antibiotics control, 139, 2610
 - fungicides, old citrus soil treated with, 1929
 - heating, electric, 2812
 - herbicide application to—*see* Weed control by soil treatment
 - horticultural, in Holland, 25
 - insecticides, 167, 320, 323, 326, 1069, 1180, 1613, 1614, 2550, 2595, 2660z, 2752, 2960, 2961, 3326, 3330, 3331
 - moisture—
 - measurement, 1261, 1262, 1274q, 2285, 2303j
 - and plant growth, 2280
 - nitrogen requirements, 509

- Soil (*continued*)—
 pots—*see* Pot
 Research, Macaulay Inst., A.R. 1948/49, 1182
 salinity, 528, 804, 807
 sickness, 1929, 3121
 sterilization—*see also* Fumigation, soil—
 by chemical methods, 1702
 electric, 1268
 by steam, 47, 304, 1180, 1787, 3411
 by ultrasonics, 3022
 temperature measurement, 1223
 water—
 relationships, 1164
 repellent, 1016
 Soilless culture—
 equipment for, 2257
 growing plants in, 38, 39, 272, 348, 502,
 505, 506, 1260, 2084, 2257-2263
 review of literature on, 2263
 solution, analysis of, 2260
Solanum—*see also* under Potato breeding—
capsicastrum, 1174
 virus 1 and 2, 871
 Solvar, a mounting medium for slides, 2292
Sorghum halepense—*see* Johnson grass
 South Africa—
 banana growing, 1076
 Dep. Agric., A.R. 1948/49, 1193
 Div. agric. Educ. and Res., A.R. 1948/49,
 1199
 Div. Bot. and Plant Path., A.R. 1948/49,
 1196
 Div. Ent., A.R. 1948/49, 1197
 Div. Hort., A.R. 1948/49, 1194
 sugar cane growing, 3269, 3271, 3273-3276,
 3363a
 South America, plant collecting expedition to,
 1881
 South Australia—*see* Australia
 Southern Rhodesia—*see* Rhodesia
 Spade, standardized specification of, 2299
 Spain—
 irrigation requirements in, 2283
 seed potato growing, 3054b
 vegetable growing, 799
 Sparrow control—*see also* Bird control—649
 Spearmint—*see also* Mint and Peppermint—
 growing in U.S.A., 3041
Verticillium wilt and rust resistance in, 951
 Spectrography, 1274r, 2141, 2303g
 Spectrophotometer for seed testing, 246
 Spectrum, physiological radiation, 9
Sphaceloma—
ampelinum, 2518
fawcetti, 1003
Sphaerolecanium unifasciatum, 745
Sphaerotheca—
humuli, 329
mors-uvae, 1475
Spilonota ocellana, 2591
 Spinach—
 carotene content, 499
 composition, 806, 813
 downy mildew (*Peronospora spinaciae*), 861
Spinach (*continued*)—
 drying, 2992
 growing in California, 285
Hymenia sp., control of, 2838
 leaf, an enzyme system in, 2201
 manganese deficiency, 27
 manuring, 860, 1701
Podagaria sp. on, 2739
 rotation crops for, 243
 sodium as a nutrient, 860
 vitamin C content, 499
 weed control, 208, 214, 782
Spondylocidium atravirens, 2920
Spongospora—
 sp. on watercress, 880
subterranea on potato, 910, 2920, 2932, 2933
Sporendonema sp. in mushroom, 884
Sporocybe azaleae, 1865
 Spray(s) and spraying, incl. dusts and dusting—
see also separate crops, pests and diseases
 by aeroplane—*see also* below, helicopter—
 166, 772, 2144, 2956
 aerosols—*see* below, insecticides
 apparatus—*see also* below, helicopter—
 for agitation of mixture, 186
 air blast stream, 1536, 1540
 with automatic mast, 2623, 2624
 dusting machine—
 home made, 1537
 power, 2626
 for experimental field plots, 1566t
 hydraulic, 1537
 for laboratory evaluation of insecticides,
 1566h
 for low volume, 152, 767, 768, 770, 1536,
 1540, 2621, 2622
 new developments, 181, 499
 nozzles, 769, 2625
 for potato, 2964
 for seed drill treatment, 1630
 for single plant treatment, 1219
 for smoke generation, 1615
 stationary plants, 2620
 for strawberry, 190
 calendar, Long Ashton, 2617
 concentrate—*see* above, apparatus for low
 volume
 damage—*see* below, injury
 DDT—
 apple and pear storage not affected by, 758
 and bees, 765, 766, 1560, 1561, 2638
 concentration effect on temperature coeffi-
 cient, 1566q
 -mineral oil emulsions, 2637
 -nicotine bentonite combination, 2639
 residue, 1808m, 2649, 2650, 2652, 2653,
 2660v, 2751
 review on, 471
 seed treatment with, 2752
 soil accumulation of, 763
 for soil treatment, 2550, 2660z, 2752, 2960,
 3326
 systemic action of, 1649
 Fermate, 1875

Spray(s) and spraying (*continued*)—
 fruit drop retarded and fruit set induced—
 see Growth substances
 fungicide(s)—*see also* Sprays, *proprietary*
 names—
 actidione, 518, 1532, 1587, 2613
 chromates, 1601
 copper—
 ion, other ions' effect on, 1566e
 leaf injury from, 752
 naphthenate, 1541
 rain resistance of, 2172
 residue, 1180
 cycloheximide, 2803
 2,3-dichloro-4-naphthoquinone (Phygon),
 187
 diphenylamine, hexanitro-, 2629
 dusts, adhesives for, 751
 ferric dimethyldithiocarbamate—*see above*,
 Fermate
 herbicide as, 1481
 hexanitrodiphenylamine, 2629
 injection of, 1940
 -insecticide dust, an all-purpose, 2627
 lime-sulphur, 1539
 list of, 1545, 2122, 2614, 2616, 2630, 2661k
 malachite green, 3346
 mercurial, 2256
 nitrogenous, leaf chlorophyll content not
 affected by, 1349
 organic—
 recent developments, 3054 I
 for red spider control, 711
 tests of, 753
 quinones, 187
 reviews on, 749, 750
 for row crops, 1540
 sodium hypochlorite, 695, 696
 sulphur—
 reviews on, 1538, 2628, 2660i
 spray injury, 764
 temperature effect on, 1623
 -urea synergism, 712
 synergism in, 712, 2629
 systemic, 2661a
 tetrachloro-*p*-benzoquinone (Spergon), 187
 tetraiodoethylene, 1669
 in U.S.A., 2661j
 urea-sulphur synergism, 712
 Gammexane (BHC)—
 for ants, 722
 a bibliography on, 2645
 for cabbage pests, 2782
 estimation, 2646
 flavour, objectionable, and, 1555, 1556,
 1613, 1614, 2644, 2963, 2965
 homologues, superior, 193
 phytotoxicity, 2661c
 soil—
 accumulation of, 763
 treatment with, 323, 326, 1069, 1180,
 1613, 1614, 2595, 2660z, 2960, 2961,
 3326
 for sugar cane pests, 3326-3329

Spray(s) and spraying—Gammexane (BHC)
 (*continued*)—
 systemic action of, 1649
 for white grub, 167
 for wireworm control, 2749, 2750
 growth substances—*see* Growth substances
 by helicopter, 184, 771, 1175, 2956
 herbicide—*see* Herbicides
 hormone—*see* Growth substances
 injury—*see also particular crops*—
 to apple, 1559, 2643
 to beans, 1557, 1628
 to bees, 196, 765, 766, 1560, 1561, 2172,
 2638
 to cucurbits, 2807
 to foliage, 752
 to lemon, 1923, 1924, 3161
 to ornamental plants, 347, 1857
 to poultry, 1558
 to vegetables, 2661c
 to winter radish, 2835
 insecticide(s)—*see also* Sprays, *proprietary*
 names—
 aerosols, 1675, 1872, 1873, 2753, 3054c
 analysis of, 776e
 arsenical—
 cell tolerance to, 1557
 particle size, 186
 azobenzene for red spider, 1615
 benzamides, chlorinated, 761
 benzene hexachloride—*see above*, Gam-
 mexane
 bio-assay of, 2660 I
 and biological pest control, 2636
 bis (bisdimethylamino) phosphonous an-
 hydride (schradan), 755, 1547, 1550,
 2648, 2660q, 2663
 bis(*p*-chlorophenyl)methylcarbinol (DMC),
 2660u
 bis(substituted phenoxy)methanes, 2766
 carbolium, particle size of, 186
 chemical constitution and toxicity, 2660e
 Cttee, Colonial, A.R. 1948/49, 1175
 DDT—*see above*, DDT
 dichlorodiphenyl dichloroethane (DDD),
 2751
 dinitro-*o*-sec-butylphenol, 198e
 dinitro-*o*-cresol (DNC), 1551, 1552, 2647
 ethyl-*p*-nitrophenol thionbenzenephosph-
 onate (EPN 300), 1547
 evaluation of, 1566h
 fauna affected by, 2660d
 flavour of peaches affected by, 2635
 -fungicide dust, an all purpose, 2627
 glyoxalidine derivatives, 1559
 harmful secondary effects of, 195
 hexachlorophenol, 1509
 hexaethyl tetraphosphate (HETP), 156,
 2753
 a list of, 1544, 1545, 2122, 2614, 2616, 2630,
 2661k
 methoxychlor, dimethoxy analogue of
 DDT, 2556, 2562
 new, 191, 198b, 1546, 2631

SUBJECT INDEX

- Spray(s) and spraying—insecticide(s) (*continued*)—
 nicotine, 2639
 nitrogenous, leaf chlorophyll content not affected by, 1349
 octa methyl pyrophosphoryltetramide—
see bis (bisdimethylamino) phosphonous anhydride
 oil—
 orange, quality affected by, 3162
 petroleum, 1491
 ovicides, 1548
 phenyl—
 benzene sulphonates, substituted (K6451), 1872, 1873, 2765
 benzoates, substituted, 2767
 phosphoric and thiophosphoric esters, 194
 phytotoxicity of, 2632
 piperonyl cyclonene, 2768
 reviews on, 749, 754, 756, 2661b
Ryania, 2588
 schradan—*see* bis (bisdimethylamino) phosphonous anhydride
 smoke generation—*see above*, apparatus
 sodium fluoroacetate, 1553
 sulphur, 1923, 1924, 3161
 synthetic organic compounds tested as, 762
 with systemic action, 348, 359, 755, 1184, 1547, 1550, 1553, 1649, 2547, 2633, 2634, 2648, 2661a, 3411
 tar oils, 1491
 tetraethyl pyrophosphate (TEPP), 2753
 thiophosphate, diethyl p-nitrophenyl—
see below, parathion
 in U.S.A., 2661j
 veratrine, 1554
 winter washes, 1535, 2661i
 K6451—*see* phenyl benzene sulphonates, substituted
 lindane, 2749, 2750
 meteorology and spraying, 1221
 parathion—
 for aphids, 156, 347, 1180, 2595, 2640
 for greenhouse pests, 1615
 for leaf nematode, 1819
 for mites, 347, 1028, 1180, 2754
 residues, 760, 1808m, 2650-2653, 2751
 toxicity—
 to man and animals, 759, 1552
 to plants, 1857, 2643
 parthenocarpy induced by—*see* Growth substances, parthenocarpy
 Pestox III—*see* bis (bisdimethylamino) phosphonous anhydride
 Phygon, 187
 residue, 2751
Ryania, 2588
 Spergon, 187
 Squash—*see also* Cucurbits—
 borer (*Melittia cucurbitae*), 269
 breeding, 3053w, 3054g
 bug control; 244, 2807
 composition and growth rate, 1681
 nutrition, 862
 Squash (*continued*)—
 Phytophthora fruit rot, 2789
 seed germination, 343w
 Squill, rat poison from red, 3440
 St. John's wort (*Hypericum perforatum*) control, 486, 1576
 St. Vincent Agric. Dep., A.R. 1948, 491
 Starch test, a guide in pruning, 3148
 Starling control—*see also* Bird control—192
 Statistical—
 analysis, 510, 568, 2188, 3054d
 design of trials, 2188-2191, 2303w
Stemphylium solani, 876
 Stephanotis, spray injury to, 347
Sterculia setigera gum, 3363m
Stereum purpureum, 2612, 3097
 Stillingia oil, 3190
 Stock—
 flower colour, inheritance of, 374d
 a virus disease of, 1643
 Stomatal movement, factors affecting, 1236, 1238-1240, 1578
 Stone fruit—*see also separate fruit varieties*—
 Capnodis in, 2549-2551
 Clasterosporium leaf spot, 1541
 diseases of, 2661d
 growing in New Mexico, 2321
 rust of, 1484
 seed germination, 2326
 shot-hole borer (*Scolytus* sp.) control, 1502
 virus—
 free, 683
 test for the presence of, 682
 Stone removal from land, machinery for, 2381
 Storage—*see also separate crops*—
 air purification in, 3368
 bulb, corm and tuber, 438, 975, 976, 2153
 citrus, 1000, 3372
 cold—
 in Canada, 2087
 refrigerating plant in tropics, 1141
 dips—
 for apples, 1139
 for bananas, 406, 407
 for tulip bulbs, 970
 flower, 438
 frozen pack, 343m, 481, 1296, 2100-2102, 2126, 3380, 3410, 3438
 fruit, 436, 438, 442, 1133, 1134, 1177, 1178, 2087, 2092, 3366, 3373
 gas, 439, 457a, 1138, 1180, 3367
 horseradish emanations in, 3373
 moss for fruit, 2172
 of nursery stock, 1854
 pests, 2099
 of pollen, 1325, 1700
 quality, anti-fruit drop sprays improve, 2092, 2093
 seed—*see* Seed storage
 seed plants, 245
 sheds—
 plastic sealing of, 440
 temporary, 442
 temperature, bud activity affected by, 522

Storage (*continued*)—

- vegetable, 436, 438, 446, 447, 2092
- ventilation in, 436
- vinyl film for avocado budwood, 1886
- vitamin K₅, a preservative for fruit and seed, 437
- wraps, 447, 1140, 1365, 1939

Stratiotes aloides, bud activity of, 522

Strawberry—

- achenes, function of, 2414
- aphid control, 190, 1550, 2545, 2546, 2648
- autumn fruiting, 107
- canning, 3410
- certification, 108, 119b, 619, 2410, 2411, 2415
- chimaera, 620, 2413
- crinkle, 486
- crown borer, 1498
- decline in the Valais, 2459
- Diachus auratus* on, 2557
- diseases, 648, 776a
- ever-bearing, 621, 627, 629
- flowering, growth substance retards, 2416
- frost—
 - damage to, 2479
 - protection, 129, 1386, 2484
- fruit growth, auxin relation to, 1385
- glass culture, 623, 624, 1387
- growing—
 - in England, 106
 - in New Zealand, 2407
 - in Russia, 616
 - in Scotland, 622
 - in South America, 2409
 - in U.S.A., 625, 1419e, 2408

Hoplia oregona on, 2558

iron deficiency, 659

irrigation, 1386

leaf—

- roller (*Ancylys* sp.), 1488
- scorch (*Diplocarpon earliana*), 650
- spot (*Mycosphaerella fragariae*), 650
- manuring, 1419c, 3428
- mouse damage to, 1529
- nematodes, 106
- origin of the cultivated, 614
- pests in the Netherlands, 648
- photoperiodic reaction, 107, 628, 629
- pollination, 1387
- red core (*Phytophthora fragariae*), 106, 486, 1478, 1479, 2148, 2407, 3431
- red spider, 650, 2572
- root—
 - inducing hormones in, 627
 - weevil (*Otiorrhynchus ovatus*), 2561
- rootworm (*Paria canella*), 650
- seed germination, 626
- selection, 618, 619
- spacing, 1384
- spittle bug (*Philaenus* sp.), 1488
- storage—
 - of fresh, 3371
 - frozen pack—*see also below*, varieties, 2101, 3380
- temperature sums for, 83

Strawberry (*continued*)—

variety(ies)—

- Auchincruive Climax, 2406, 3410
- Californian new, 109
- for canning, 3410
- drought-resistant, 616
- in Germany, 1288
- large-fruited, 615, 630
- Perle de Prague, 2406
- for quick freezing, 3410
- Royal Sovereign, 108, 620, 2413
- trials, statistical design of, 2190
- in U.S.A., 1370, 1419d
- Vermillion, 2412
- Wädenswil, 617, 2172
- Verticillium* wilt of, 2190
- virus diseases, 198i, 486, 686, 1456
- weed control, 214, 226-228, 777, 778, 1582, 1583, 2703, 3425
- weevil (*Anthonomus signatus*), 650, 728, 2161, 2562, 3428
- wilt, sudden, 1479
- wireworm and white grub control, 106, 916
- yellow, 486, 1456

Streptomycin—

- bioassay of, 1534
- chlorophyll formation inhibited by, 1534

Striga seed germination, 241h, 796c, 2237

Strophanthus spp. medicinal plants, 3360, 3361

Strumeta tryoni, 168

Strychnos spp., curare from, 2121j

Styrax tonkinensis, gum-benzoin from, 3350

Suberization of tissues, internal, 2226

Sub-tropical fruit—*see* Fruit

Sudan, flora of Anglo-Egyptian, 3391

Sugar from *Borassus flabellifera*, 3351

Sugar cane—

- African giant snail (*Achatina fulica*) on, 428
- borer, 1117, 1118, 1192, 2146, 3324, 3363b
- boron deficiency, 1098
- breeding, 2146, 3274, 3275
- Breeding Station, Barbados, A.R. British West Indies Central 1947 and 1948, 1169, 1170
- by-products, 3312, 3363h
- Clements crop log system, 3287
- Clemora* sp. on, 2063, 2064
- climatic requirements, 1100
- crop—
 - estimates, 1109, 1111
 - rotations for, 794
- downy mildew, 3317, 3322
- drainage, 1114, 1117, 3290
- drought resistance in, 2049
- Dynastid beetles on, 3326
- Exp. Stats, Queensland, Bureau of, A.R. 1949, 1171
- fibre determination, 3296
- flooding, 2050
- froghopper (*Tomaspis saccharina*), 427, 1175, 1192, 2061, 2062
- frost damage to, 1099
- galls on, 2060
- grasshopper, elegant (*Zonocerus* sp.), 3329

SUBJECT INDEX

Sugar cane (*continued*)—

greyback cane beetle grub (*Dermolepida* sp.), 1120, 1171, 3325, 3327

growing—

- in Barbados, 1110
- in British West Indies, 1169, 1170, 3266
- in the Caribbean, 472
- in Costa Rica, 1106
- in Dominican Republic, 2045
- in Hawaii, 3270
- in Indonesia, 3267
- in India, 1100, 1103-1105, 2044
- in Jamaica, 1170
- in Louisiana, 3285
- in Mississippi, 3280
- in Pakistan, 2044
- in Peru, 1108
- in Puerto Rico, 2085f
- in Queensland, 1114, 1130b, 1171
- in Rhodesia, 3363s
- in South Africa, 3269, 3271, 3363a
- in Sudan, 1107
- in Trinidad, 1169, 1170, 1192

gur from, 2110

harvesting, 2057-2059, 3305, 3306, 3438

irrigation, 3363s

juice analysis, 2051, 2146, 3293-3295

leaf—

analysis, 3287

-hopper (*Perkinsiella* sp.), 3363q

machinery, 1108, 1112, 1113, 2056-2059, 3269, 3299-3311, 3363f, 3363n, 3440

manuring—

general, 1171, 2054, 2055, 2146, 3272, 3278, 3284-3288, 3291, 3292

green, 1171, 3289

mosaic, 2146, 3316, 3363u

nutrition, 1098

payment systems, 3363v

pest control, 3328, 3330, 3331

Physalospora tucumanensis on, 144

Phytophthora rot, 3321

planting, 3280, 3303

processing—*see also* Sugar manufacture—
3268, 3297, 3298, 3311, 3314

Pythium arrhenomanes, 3332

rainfall effect on yield, 3282

rat control, 2065, 3333

root borer (*Diaprepes* sp.), 2146

rust, 3318, 3319

setts, 1116, 3278, 3321-3323, 3326, 3331

smut (*Ustilago* sp.), 3318, 3320

soil—

fumigation, 3330

management, 3284

potassium release in, 2052

spacing, 3278

stalk, anatomy of, 1096, 1097

storage, 1101, 1102

streak virus, 1116

stunting disease, 3315

variety(ies)—

- in Barbados, 1110, 1169, 1170, 2146, 2154
- in British Guiana, 1169, 1170, 3272, 3278

Sugar cane—variety(ies) (*continued*)—

Coimbatore (India), 1111

decline of, 3315

in Mississippi, 3425

in Philippines, 2048

in Queensland, 2046, 2047, 3277

in South Africa, 3273, 3276

water—

intake, 3283

-logging affects quality, 2051

wax, 3363j

weed control, 233-240, 793-795, 1588-1590, 2704, 2705, 3440

white fly, 2085g

wireworm control, 1119, 3331

yields, factors affecting, 3281, 3282

Sugar—

determination in plants, 1274b, 3363c

Exp. Stats, British Guiana, A.R. 1949, 3423

manufacture—*see also* Sugar cane processing—2117, 2118, 3313

from maple, 516

from *Nipa fruticans*, 3359

from palm juice, 2116

precipitation, stimulation of, 2303n

production and consumption, 2043

Res. Foundation, N. York, A.R. 6th, 492

transformation in plants, 2196

Sulphur—*see also* Sprays, fungicides—

dioxide and plant life, atmospheric, 126

requirements of plants, 2274, 2275

Sumac—*see* *Rhus*

Sumatra—*see also* Indonesia—"ladang" system of cultivation, 398

Sun—

burn of apples in winter, 1434

scaud, 2476

Sunflower—

crown gall, 48k, 1230, 2733

seed oil, 1229

tubers, inulin, alcohol and fructose from, 953

Svalöf Plant Breeding Station, 797

Swaziland Dep. Native Land Settlement, A.R. 1948, 494i

Sweden—

frost resistance of herbaceous ornamentals, 1811

fruit—

breeding, 2145

growing, 2305, 2391d

seed testing in, 1271

tulip growing, 1853

vegetable canning, 2121s

woolly aphid in, 723

Sweet corn—*see* Maize

Sweet potato—

black rot (*Ceratostomella fimbriata*), 392, 1956

breeding, 1952

carotene content, 390, 2097, 3425, 3428

composition, 1039, 1957

cracking, 1954

curing, 3425

Fusarium wilt, 1041

SUBJECT INDEX

- Sweet potato (*continued*)—
 growing—
 in Italy, 3180
 in Philippines, 389
 in Tanganyika, 1166
 in U.S.A., 1040
 harvesting, 1953
 internal cork, 3428
 manuring, 391, 1953, 1954, 3413, 3425
 nematode control, 1955, 1956
 quality, 481, 1953
 ridging affects yield and quality, 1953
 stem rot resistance, 1951, 3425
 storage, 1954, 2096, 2097
 variety trials, 1950
 vitamin C content, 390, 3428
 weevil (*Cylas* sp.), 3439
 wireworm control, 1956
 Swift Current Dominion exp. Stat., Rep.
 1937-1947, 1189
 Switzerland—
 apple—
 juice production in, 457d
 and pear rootstocks, 2334
 varieties, 463
 flora of, 1274 l
 fruit—
 and grape juices, 2121m
 growing, 100b, 540
 horticulture in, 2713
 peach growing, 542
 pear varieties, 464
Synchytrium endobioticum—*see also* Potato
 wart disease—2935-2937, 3053r
Syngenespis oleae, 746
Tabebuia pentaphylla, a shade tree for cacao,
 1053
Tabernaemontana spp., chicle gum from, 2041
Taeniothrips simplex, 361
 Tafo—*see* West African Cacao Res. Inst.
 Tallow tree, Chinese (*Sapium* [*Stillingia*
 sebiferum]), 3189, 3190
 Tamarind seed composition, 1042
 Tamarisk cuttings, 636
 Tanganyika—
 agriculture in, 1166
 Dep. Agric., A.R. 1947, 1190
 Tango—*see also* Citrus—taxonomy and
 varieties of, 3115
 Tangerine—*see also* Citrus and Mandarin—
 Clementine—
 girdling, 1914
 origin of, 2158
 pruning, 1914
 variety Montréal, 1902-1904
 composition, 1936
 quality, rootstock affects, 1936
 as rootstock, 3138
 variety, Ellendale, 999, 3116
 Tannin—
 from *Rhus*, 2119
 sources of, 3025, 3438
Taphrina deformans, 144, 1180, 2532
Taraxacum—*see* Kok-saghyz
Tarsonemus pallidus, 359, 1873
 Tasmania—
 fruit growing, 2304, 2391i
 small fruit growing, 602
Taxus cuspidata cuttings, 1875
 Tea—
 Ass., Indian, A.R. sci. Dep. Tocklai exp.
 Stat. 1948, 3421
 Azotobacter in rhizosphere, 3343
 biochemistry, 1191
 blister blight, 430, 431, 1191, 2069-2071, 3435
 Colletotrichum camelliae, 1191
 cover crops, 429
 cuttings, 1191, 3338, 3421
 defoliation disorder, 3345, 3435
 disease and pest control, 3335, 3336
 frost protection of, 3344
 growing—
 in India, 3435
 in Nyasaland, 3334, 3429
 Helopeltis control, 3435
 leaf composition, 3421
 locust injury to, 1121
 manufacture, 1191, 2121n, 3335, 3421
 manuring, 429, 1191, 3335, 3340-3342, 3421,
 3435
 origin of cultivated, 1122
 pest control, 3421
 planting—
 contour, 3339
 hedge, 429, 3421
 plucking, 429, 2067, 2068, 3421
 potash deficiency, 3342
 pruning, 429, 2066, 3335, 3435
 red spider, 3421
 Res. Inst. Ceylon, A.R. 1948, 1191
 Sclerotinia disease, 3421
 seed, polembryony in, 3337
 selection, 3335
 shade trees for, 429, 3341, 3421
 shot hole borer, 2085e
 soil management, 3335, 3340, 3435
 spacing, 3339
Teclea spp. in West Africa, 3192
Temnorhynchus spp. on sugar cane, 3326
 Temperature—*see also* Climate, Meteorology
 and Weather—
 at Long Ashton, air, 2303c
 recording, a new apparatus for, 507
 sums—
 for fruit, 83
 for peas, 1672
Tenuipalpus californicus, 1931
Tephrosia—
 candida, a green manure crop, 1066
 maxima interplanted with *Hevea*, 417
 Terraces, building fruit, 94
Tetracarpidium conophorum, an oil plant, 1185,
 3354
Tetranychus—*see also* Red spider—
 atlanticus, 650, 2572
 bimaculatus, 980, 1872, 2570, 2571, 2753,
 2765-2767

- Tetranychus* (continued)—
pacificus, 1721
telarius, 48i, 153, 2576
willamettei, 719
Tetraploid plants, 608, 1689, 2814, 3440
Theobroma—see also Cacao—spp., identification of, 1984
Theresimima ampelophaga, 2152
Thiamin dehydrase, 2206
Thielavia basicola, 3415
Thielaviopsis—
basicola, 486, 3054h
sp. on coffee, 3231
Thinning—
apple blossom by sprays, 97, 499, 598, 1345, 2148, 2378, 3427
apricot and prune blossom, 2148
carrot, 811
oil palm trees, 2029
orange fruit, 1915
peach blossom and fruit, 598, 1344, 1345
rubber trees, 2157
vegetables, personal factor in, 811, 1210
Thomasiana theobaldi, 1566p, 2602
Thrips tabaci, 1670, 2825, 2826
Throwley crop weather station, Kent, 2186
Thuja—
lecanium sp. on, 3101
orientalis, seed germination, 23
Tiliaceae of the Sudan, 3391
Timothy grass, an orchard cover crop, 496
Tissue—
culture, 2213, 2216
tests, 29, 93, 121, 2151, 3139, 3148
Tobacco—
Achatina fulica on, 940
alkaloids, 920
Alternaria tenuis rot, 935
aphid control, 938, 939, 1550, 1793
atomic energy effect on, 1216
Azotobacter inoculation of, 926
Barathra sp. on, 2739
barn construction, 3428
big bud virus, 1177
black fire (*Pseudomonas angulata*), 6
black shank (*Phytophthora nicotianae*), 930, 2162, 3428
blue mould—see below, downy mildew
boron toxicity, 928
Botrytis cinerea rot, 935
breeding, 323, 929, 1199
brown spot (*Alternaria longipes*), 932
cigar, 325, 1776, 2121i
composition—see also below, nicotine content—921, 927, 1783, 2161, 2162, 2997, 3011-3013
composts for, 2171
copper, a fertilizer amendment, 3010
curing, 935, 941, 1199, 2121i, 2171, 3440
diseases, control of, 486, 931
downy mildew, 934, 1612, 1808n
Exp. Stat., Rome, work at, 323
fermenting—see above, curing
filler, 3002
Tobacco (continued)—
floral initiation, 1778
frenching, 1184, 3011, 3012
gammexane effect on, 323, 326
grafting, 920, 921
growing—
in Belgium, 3006
in Eire, 2997
in Mauritius, 2998
in New Zealand, 485, 486
in Nigeria, 487
in Nyasaland, 3429
in Philippines, 919, 1776
in Southern Rhodesia, 1775
in Uganda, 3434
in U.S.A., 1774, 2994-2997
in Western Australia, 918
heterosis in, 3003
hornworm (*Protoparce* spp.) control, 1794, 3023
insect pest control, 936, 937, 1795, 3021, 3022
irrigation, 1178, 1187
leaf—
-curl virus, 933
growth, 3009
manuring, 343k, 343 l, 924, 1184, 2150, 2162, 2171, 2997, 3006-3008, 3428
marketing, 343b
mineral deficiency in, 925, 1786, 3011, 3012, 3015
minor element deficiency in, 323
mosaic, 343g, 1789, 1790, 1808k, 2173, 3016, 3017, 3019, 3053f
necrotic virus, 1808 l, 3019
nematodes, 930, 931, 1178, 1197, 3440
nicotine—
content—see also *Nicotiana rustica*—927, 3001, 3005, 3013, 3024
estimation, 2659
nutrition, 1784, 3009
Orobanche sp. on, 1792
photoperiodic reaction, 1777
pollination, 3003, 3004
powdery mildew, 959n
Pseudomonas tabaci—see below, wild fire quality, 325, 927, 3006-3008, 3013
research in Carolina, 917
ring spot virus, 251
root—
growth, 2728
rot—
black (*Thielaviopsis* sp.), 486, 3054h
brown, 3020
rotation crops for, 2171
Sclerotinia sclerotiorum, 935
seed—
-beds, 213, 1184, 1779, 1781, 1787, 2161, 2171, 3000, 3428
certification, 321
germination, 322, 323
growth substance and vernalization treatment of, 1780
production, 2150
sowing, 1199, 2999

Tobacco (*continued*)—
 seedlings, multiple, 343d
 soil—
 disinfection of seedbeds, 930, 931
 sterilization, 1787
 spacing, 2171, 3006
 storage, 440
 streak virus, 1788
 Substat., Windsor, Conn., Rep. 1945 and
 1947, 343a, 1201a
 suckers, chemical suppression of, 324, 922,
 1785, 3014
 transplanting, 923, 2150
 virus diseases—*see also above*, frenching and
 mosaic—251, 933, 1177, 1788, 1808 l,
 3018, 3019
 water consumption, 1199
 weed control, 213, 930, 2161, 2171, 2700
 white grub control, 2171
 wild fire (*Bacterium tabacum* or *Pseudomonas*
 tabaci), 6, 1186, 1533, 1791
 wireworm control, 2161, 2171
 wrapper, 919, 938
 yellow dwarf virus, 1177, 3018
 Tocklai—*see* Indian Tea Ass.
Tomaspis saccharina on sugar cane, 2062
 Tomatidine and tomatine, 3438
 Tomato—
 anatomy, 959u
 anthracnose, 872, 1186
 aphid control, 318
 aspermy virus, 1714
 bacterial—
 canker, 300
 black spot (*Bacterium vesicatorium*), 1719
 wilt (*Pseudomonas solanacearum*), 872-
 875
 big bud, 3018
 blight, 6, 301, 302, 314, 486, 1186, 1533, 1612,
 1716, 1717
 blossom and fruit fall, 2867, 2871
 blotchy ripening disorder, 2870
 boron deficiency, 2862
 breeding—
 for carotene content, 2198
 for cold resistance, 1693
 for disease resistance, 290, 1698
 statistical analysis in, 3054d
 for vitamin C content, 343e, 2846
 buckeye rot (*Phytophthora capsici*), 2789
 carotene content, 2198
 chlorosis, photoperiodic, 295
 Colletotrichum atramentarium on, 144
 composition, 247, 297, 806, 869, 1194, 3054e
 crown gall, 1533, 2733
 defoliation, 1716
 dehydroascorbic acid content, 3384
 Didymella lycopersici, 1174; 3411.
 diseases—*see also below*, fungicides—and
 pests in New Zealand, 870
 flower structure, mutations affecting, 1692
 frost—
 damage to, 2482
 protection, 129

Tomato (*continued*)—
 fruit—
 development *in vitro*, 503, 1214, 1215
 grooved, 2850
 set—*see also below*, parthenocarp—fac-
 tors affecting, 2858
 size, factors affecting, 293, 294, 343t
 fungicides—*see also under individual diseases*
 —1716, 1720, 3428
Fusarium wilt—*see below*, varieties
 glasshouse—
 culture, 3393
 illumination, 2859
 grading, 343p
 grafting, 4, 1693
 green, marketing of, 298
 grey leaf spot (*Stemphylium solani*), 1716
 growing—
 in Argentina, 867
 in cardboard boxes, 1174
 in England, 2845
 in Hungary, 2849
 in Italy, 2844
 in Russia, 1688
 in Siberia, 802
 in Tunis, 493
 growth—
 curves, 1696
 substance—
 effect on, 1234, 1705
 treatment—*see below*, parthenocarp
 weight changes during, 1711
 "hard core", 486
 heterosis in, 1691, 2847
 hornworm (*Protoparce* sp.), 1721, 1794,
 2875, 3023
 irrigation, 1178, 2731, 2863
 juice, vitamin C content, 2150
 ladybird control, 1610
 leaf—
 miner (*Liriomyza* sp.), 1174, 1721, 3411
 mould (*Cladosporium fulvum*), 486, 1698
 spot—*see below*, *Septoria*
 lycopene content, 1699
 magnesium deficiency, 3411
 manuring—*see also below*, nutrition—249,
 296, 297, 498, 1174, 1690, 1701-1703,
 2149, 2861, 2862, 3411, 3425
 mildew resistant, 2873
 mite (*Phyllocoptes* sp.), 1721, 2875
 molybdenum deficiency, 1181, 1712
 mosaic, 1174, 1715, 1808j, 3411
 necrosis, 871
 nematodes in, 878, 1566i, 1723, 1808i, 2536,
 2874
 nutyition, 24, 873, 875, 2721, 2857
 pacikng, 298, 3167
 parthenocarp induced, 11, 292, 293, 868,
 869, 1214, 1698, 1704-1709, 2165, 2865,
 2866, 2869, 3441
 phosphate deficiency, 1972
 phosphoric ester content of, 27
 phosphorus absorption, 1694, 1695
 photoperiodic response, 10, 295

- Tomato (*continued*)—
 photosynthesis, 2855
 pollen storage, 1700
 pollination, 1808v, 2853
 potassium requirements, 1701
 radio-active material effect on, 2161
 red spider, 1721
 respiration, 2855, 3053u
 ripening, 343n, 1710, 2868
 roguing, 496, 1698
 root(s)—
 growth, 2728, 2863
 injury, Cheshunt compound causes, 1713
 nutrition of, 2857
 rot, brown, 3411
 seed—
 disinfection, 291, 805
 germination, 2752
 production of hybrid, 2853
 seedlings, raising of, 496, 1713, 2856
Septoria leaf spot, 301, 302, 1716
 shatter virus, 299
 skin puncture studies, 1697
 soil—
 amendments for, 3411
 erosion, 3430
 sterilization, 877, 878, 1702, 1929
 soilless culture of, 502, 506, 2258, 2259, 2261
Solanum virus 1 and 2, 871
 spacing, 343t
 spotted wilt virus, 2173
 spraying, plant development affected by
 chemical, 1711
 stem—
 rot (*Didymella lycopersici*), 1174
 structure, 1694
Stemphylium solani on, 876
 stomatal opening, measurement of, 2854
 stopping, 2860
 storage, 872, 2098
 suckfly (*Dicyphus* sp.), 2876
 sucrose absorption by, 2857
 tetraploid, 1689
 tissue—
 culture, 2216
 tests, 1703
 tobacco mosaic, 2872
 transpiration, 2222, 2223, 2855
 transplanting, 296, 923, 1711, 2149
 tree, 485, 1967
 variety(ies)—
 disease resistant Hawaiian, 2848
 Durbot, 866
 Fortune, 3441
 Fusarium wilt resistant, 1177, 1687, 2852,
 3441
 Marglobe, 959u
 Pridneprovskii, 1693
 San Marzano, 2850
 Sunray, 1687, 2852
 in Texas, 2851
 trials at Cheshunt, 1174, 3411
 Vetomold, 2148
Verticillium wilt, 877, 1718, 3411
- Tomato (*continued*)—
 virus diseases—*see also above*, mosaic—299,
 871, 1714, 2173, 2872, 3018
 vitamin—
 B content, 294
 C content, 343e, 499, 2098, 2150, 2846,
 3382, 3383, 3390g
 water—
 absorption from atmosphere, 2864
 supply and life processes, 2222, 2223
 watering, temperature affects development,
 1711
 weed control, 208, 225
 weevil (*Phyrdenus* sp.), 1722
 weight changes during growth, 1711
 wireworm control, 2748
 Yearbook, American, 865
 yields, factors affecting, 343t, 1690
Tortrix postvittana, 171, 188, 1931
Toxoptera aurantii, 1931
 Tracheids, cortical, in *Citropsis* spp., 1901
 Tractors, horticultural, 43
Tradescantia, anther differentiation in, 1249
 Training—*see also particular plants*—
 dwarfed trees, 981
 fruit trees—
 as hedges, 88, 2376
 horizontally, 593, 1278, 1279, 1340
 as spindle bush, 1339
 Transpiration—
 estimation of, 1237
 and leaf water content, 1238
 sprays to reduce, 1863
 and water supply, 2222, 2223
 Transplanting—*see also particular plants*—
 evergreens, 1863
 sprays to facilitate, 1863
 Tree(s)—
 dwarfed ornamental, 981
 ornamental—*see* Ornamental
 poisoning, 3425
 tomato (*Cyphomandra betacea*), 485, 1967
 Trelawney Tobacco Res. Stat., S. Rhodesia,
 A.R. 1948, 2171
Trichoderma viride, antibiotic from, 1668
Trichosanthes spp., floral biology of, 2805
Trifolium subterraneum, a virus disease of,
 251
 Trinidad—
 citrus growing, 996, 3110
 and Tobago, Dir. Agric. Administr. Rep.
 1948, 1192
 Triploid *Kniphofia*, 987a
Tripterygium wilfordii, 1565
 Tropical fruits—*see* Fruit
 Tropics—
 cold storage in, 1141
 vegetable—*see also* Vegetables—varieties for,
 2084
 Tropisms, plant, 2211, 2212
 Truck crop manuring, 248
 Tryptophane, nicotinic acid synthesis and, 514
 Tulip—*see also* Bulbs—
 Augusta disease, 374h

SUBJECT INDEX

- Tulip (*continued*)—
 bulb—
 dipping, 970
 rot, grey (*Sclerotium tuliparum*), 977
 storage, 2153
 forcing, 2153, 3089
 growing in Sweden, 1853
 manganese deficiency, 2153
 manuring, 355, 2153
 tobacco-necrosis virus in, 374h
 Tumours, plant, a review, 1463
 Tung—
 breeding, 393
 bud composition, 394
 cover crops, 1960
 die-back (*Botryosphaeria* sp.), 3185
 frost resistance, 1044
 growing—
 in Nyasaland, 3429
 in U.S.A., 3181
 growth curves, 1959
 harvesting and drying, machinery for, 3440
 leaf analysis, 3182
 manuring, 394, 1958, 1960, 3181, 3183, 3184, 3440
 oil, 393, 1960, 2115, 3187
 photosynthesis, 3182
 root system, 1043
 thread blight (*Corticium [Pellicularia]* sp.), 3186
 zinc deficiency, 3181
 Tunisia—
 fruit growing, 2391b
 Serv. bot. agron., A.R. 1948 and 1947, 493, 494j
 Turmeric (*Curcuma longa*) growing in India, 1128, 3420
 Turnip—
 club root of, 2878
 fly (*Pegomya* sp.), 649
 gall weevil (*Ceutorhynchus* sp.), 2877
 greens, carotene and ascorbic acid content, factors affecting, 1724
Turritiana obliqua, 1032
 Twitch-grass control, 3431
Tylenchulus semipenetrans, 384, 1930
Typhlocyba—
 froggattii, 734
 tenerrima, 2569
Tyroglyphus putrescentiae, 1597
 Tyrol, South, fruit growing, 1277
 Uganda Dep. Agric., A.R. 1948, 3434
 Ultrasonics in horticulture, 2458, 3022
 Umbelliferous crops' and weeds' response to herbicidal oils, 2150
Uncinula necator, 1473
 U.N.E.S.C.O., papers on agriculture in the Middle East, 1168
 United Planters' Ass. Southern India, Tea sci. Sec., A.R. 1948/49, 3435
 United States—see also individual States—
 Administ. agric. Res., A.R. 1949, 3437
 United States (*continued*)—
 Agric. Statistics, A.R. 1948 and 1949, 1201d, 3442
 apple and pear exports, 1274w
 boysenberry and loganberry growing, 607
 breeders' list, 1205
 Bureau—
 agric. industr. Chem., A.R. 1949, 3438
 Ent. Plant Quarantine, A.R. 1949, 3439
 Plant Industr., Soils, agric. Engng, A.R. 1949, 3440
 citrus growing, 1938
 Dep. Agric., agric. Exp. Stats, A.R. 1949, 3441
 fruit—
 growing, 2307, 2321
 and vegetable marketing, 2303m, 2303v
 insecticide, fungicide and rodenticide act, 2661j
 jujube growing, 3188
 mint growing, 3041
 nursery inspection, 1
 plant—
 diseases in, 647, 1612
 introductions, 3401
 potato growing, 887
 raspberry growing, 613, 644b
 Secretary Agric. Rep. 1949, 3436
 strawberry growing, 625
 tobacco growing, 2994-2997
 tung growing, 3181
 vegetable growing, 2715
 vine growing, 1389, 2420
 Urea—
 foliage sprays, 1409, 2166
 for nitrogen fertilizing, 1013, 3286, 3428
 synergistic action with sulphur fungicide, 712
 Urease, 959w
 Urocystis gladiolicola n. sp., 1844
 Uromyces—
 fabae, 824
 phaseoli, 1623, 1626, 1627
 Urophorus humeralis, 1941
 U.S.S.R.—
 apple varieties, 1289
 citrus growing, 1008
 fig growing, 59, 555
 fruit growing, 548, 549, 990, 991
 genetics in—see Genetics, Soviet
 lemon growing, 1900
 melon growing, 847
 olive growing, 56
 persimmon growing, 1945
 tomato growing, 1688
 vine growing, 632-634, 2422
 Ustilago scitaminea, 3318, 3320
 Utah, weeds and poisonous plants of, 199, 201
 Vaccinium ashei, 2393
 Vanilla—
 curing, 1149, 2073
 Fusarium root disease, 2154
 growing—
 in French Pacific colonies, 1129, 2072

- Vanilla—growing (*continued*)—
in the Seychelles, 490
manuring, 2154
quality, 1149
seed germination, 3348
- Vanillin, *Yucca brevifolia*, a source of, 3025
- Varieties, fruit and nut, a list of, 100a
- Variety trials—*see under* Fruit and Vegetables
and under separate crops
- Vegetable(s)—*see also particular vegetables*—
breeding—
at Mississippi agric. Exp. Stat., 3425
at Wädenswil, 2172
bug, green (*Nezara viridula*), 486, 818
bunching, machine for, 2298
canning—
in Canada, 1144
in Sweden, 2121s
composition, 247
cutworm control, 1808r
dehydrated, moisture determination in,
2121g, 3379
dehydration and drying, 2103
disease control, 815, 1607, 1613, 2140, 3054 l
flavour, soil insecticides' effect on, 1613
growing—
in Canada, 2163
in the Caribbean, 472
in glasshouses, 2730
in Gt Britain, 1208
in Hong Kong, 2156
in India, 988
in Indonesia, 397
in Japan, 2182
manual on, 2139
in New Zealand, 485
in Pennsylvania, 1209
in Philippines, 1048
in Spain, 799
in tropics, 2084
manganese deficiency, 2725
manuring, 249, 499, 808, 809, 1178, 1603,
2276, 2277, 2722-2724
marketing in U.S.A., 2303m, 2303v
marrow—*see* Squash and Cucurbits
nematodes, 2747
nitrogen deficiency, 1606
nutritional value of, 2104
packing, 2088
pest control, 2140, 2736-2740, 3439
preservation, 1131
Res. Stat., Wellesbourne, Warwicks., Nat-
ional, 798
salt tolerance of, 1604
seed—
disinfection, 2719, 2734
pelleting, 2720
production—
in Gt Britain, 1600
in India, 800, 801, 1599
in Italy, 959q
in Malta, 1183
in Switzerland, 343i
storage, 437
- Vegetable(s) (*continued*)—
seedlings, damping off in, 2172, 2734
for soil conservation, 2726
soil flooding for *Sclerotinia sclerotiorum*
control, 816
soiless culture of, 2084
spray residue on, 2751
storage—
cold, 446
of fresh, 436, 438
frozen pack, 2102, 2126
quality, growth substances improve, 2092,
2095
wraps, 447
tropical—
nutritional value of, 1143
pectin from, 1145
varieties, 2084
variety(ies)—
for canning, 1595
in Czechoslovakia, 1598
for high altitudes, 2716
trials—
in Denmark, 2153, 2155
in Malaya, 1596
at nat. Inst. agric. Bot., Cambridge,
2714, 3426
in N. Dakota, 2715
vitamin—
C content, 455, 3381, 3382
content, 1602
vole control, 819
weed control, 208, 210, 212, 214-218, 2687-
2690
weevil (*Listroderes obliquus*), 252
wireworm control, 2750
- Venezuela—
cacao growing, 1051, 1055, 3209
oil palms of, 474
- Venturia—
inaequalis—*see* Apple scab
pirina—*see* Pear scab
- Veratrum album*, an insecticidal plant, 1554
- Vermiculite as a rooting medium, 346, 1260
- Vernalization—
of artichoke, 820
of clary, 966
of tobacco, 1780
- Verticillium*—
albo-atrum, 716, 877, 1718, 2735
dahliae, 715, 716
nigrescens, 716
sp. on apricot, 3147
spp., *Pseudomonas* spp. produce antibiotic
against, 139
diseases in U.S.A., 646
wilt—
of guayule, 3050
of hop, 328
of mint, 951
of mushroom, 1186, 2978
of strawberry, 2190
of tobacco, 486
of tomato, 3411

SUBJECT INDEX

- Vespa orientalis*, 2600
 Vetiver root, oil from, 3362
Viburnum—
 cuttings, 346
 leaf patterns, 986
Victoria, Aust., fig growing, 544
Vinca rosea, stamen and carpel development in, 374a
 Vine—
 anthracnose, 2517, 2518
 berry size, oil-wax emulsion sprays improve, 1409
 boron deficiency, 2449
 Botrytis cinerea—*see below*, grey mould
 breeding, 633, 1198, 2424-2427, 3430
 bud(s)—
 fruit, 1406
 moth (*Theresimima* sp.), 2152
 mould fungi attacking, 147
 rot, 1446
 Byctiscus betulae on, 165
 cicadas on, 2579
 cochylis control, 1180
 Coniothyrium diplodiella, 2512
 copper toxicity, 658
 court noué disease, 2503
 cover crops, 2445
 cuttings, 636, 1400, 1401, 2172, 2244, 2429-2432, 2435-2440
 direct producers, 1395
 disease control, 1487, 2620
 dodder control, 2609
 downy mildew (*Plasmopora viticola*) control, 1180, 1474, 2455, 2487, 2529.
 drought injury, 1451
 Erwinia amylovora, 1198
 eudemis control, 741, 1186, 2585, 2586, 2641
 frost—
 damage to, 111, 1445-1448, 2478, 2660p
 protection, 667, 669, 670, 1443, 1444, 2172
 resistance, 1406
 grafting, 1180, 1198, 2428, 2433
 grape—
 composition, 2425, 2442, 3374
 juice production, 2121m
 maturation, 1391
 oenidin determination, 2121e
 organic acid content, 1391, 1392
 residue utilization, 27, 456, 2448
 sugar content, 1392
 table—
 packing, 115
 seedless, 113
 storage, 437, 1180, 3374
 variety, Cannon Hall, 114
 green mould (*Penicillium* sp.), 2172
 grey mould (*Botrytis cinerea*), 2172
 growing—
 in Belgium, 2418
 in California, 1398, 1399
 in Canada, 631
 in England, 112, 462, 2417, 2418
 in France, 2419
 in Greece, 1390
 Vine—growing (*continued*)—
 in Holland, 2418
 in Italy, 1388, 1395, 2421
 in Luxemburg, 119c
 a manual on, 462
 in Portugal, 1396, 1397
 in Russia, 632-634, 2422
 in Switzerland, 1402, 2452c
 in Turkey, 110
 in U.S.A., 1389, 1419b, 2420
 growth substance effect on—*see also below*,
 weed control—1584, 2434
 hail damage to, 1449, 2485, 2486, 2512
 infectious degeneration, 2503
 inflorescence, development of, 2441
 iron deficiency, 1177
 irrigation, 1178
 leaf—
 area, grape size and composition related to, 1392
 colour an index to N status, 1335
 histology, phylloxera resistance not related to, 1393
 hopper, 135-137, 1505
 magnesium deficiency, 3428
 manganese deficiency, 2449
 manuring, 637, 644a, 1180, 1198, 1408, 1409, 2152, 2445-2449, 3430
 microclimate, 667
 mildew control, 1473
 mineral deficiency, 1177
 muscadine, 1404
 must composition, 1392
 parthenocarp in, 11, 1180
 pest control, 1487, 2543, 2620
 phylloxera—
 control, 2595
 resistance, 742, 1393, 2594
 in Syria, 2596
 Pierce's disease, 135-137, 1460, 1461
 pruning, 1177, 1404, 1405, 1407, 1445, 1447, 1448, 2444, 2452d, 2478, 3417
 raisin—
 dehydration, 1178
 moth (*Ephestia figulilella*), 198d
 red-banded leaf roller (*Argyrotaenia* sp.), 1514
 red spider control, 1180, 2575, 2579
 root grafting, 2428
 rootstock(s)—
 cuttings, 2431-2433
 various, 1396-1399, 1451, 2172
 soil cultivation, 584, 658, 2443, 2445
 spacing, 635
 spraying nozzles for, 769
 temperature sums for, 83
 topping, 1180
 training, 111, 631, 670, 1403
 transpiration rate, 1394
 trials, statistical design of, 2188, 2191
 tying, wire clips for, 638
 urea foliage sprays, 1409
 varieties—
 Cannon Hall, 114

SUBJECT INDEX

- Vine—varieties (*continued*)—
 Cinsaut, 1390
 Concord, 2446
 Kuntra, 110
 muscadine, 1404
 Muscat of Alexandra, 1177
 Seedless, 2423
 weed control—*see also above*, growth substance—1582
 weevil (*Otiorrhynchus* sp.), 2563
 windbreaks for, 2490
 zinc deficiency, 664
 Vineland hort. Exp. Stat., Rep. 1947 and 1948, 3430
 Violet—
 growing in England, 1834, 3103i
Protomphytus sp. on, 1815
 Viridin, an antibiotic, 1668
 Virus—
 a chemical test for the presence of, 682
 concentration and the number of lesions, 677
 detection in fruit trees, 3441
 diseases—*see also under particular plants*—
 electrical unbalance a possible cause of, 1457
 of fruits, 2660x
 a review, 676
 in South Australia, 251
 spread of, 2492
 inhibitors, fungi produce, 3019
 leaf deformation caused by, 679
 nomenclature, 2660b
 research, a review of, 676, 2491
 serological investigations, 1808c, 1808d
 of stone fruit, 682, 683
 Vitamin—*see also individual plants*—
 A—*see also* Carotene—substances yielding, 3390a
 C content—*see also* Ascorbic acid—
 of citrus, 1000
 of fruit, 455, 3381
 of leaves growing in darkness, 812
 manuring does not affect, 455
 of vegetables, 455, 3381, 3382
 content, temperature affects, 1602
 K₈ for fruit and seed storage, 437
 seed treatment with, 1652
 Vole control, 819, 2604
Volvaria volvacea culture, 1126
 Wädenswil hort. Res. Stat., Rep. 1946/1948, 2172
 Wageningen, fruit tree manuring at, 89
 Waite agric. Res. Inst., Rep. 1943/47, 2173
 Walnut—
 bacterial blight (*Xanthomonas juglandis*), 141
 caterpillar (*Datana* sp.), 1172, 2537
 codling moth, 1512
 2,4-D effect on, 241d
 flowering, secondary, 1416
 frost—
 damage to, 131, 2479
 resistance in, 643, 1413
 Walnut (*continued*)—
 grafting, 560, 2172
 growing—
 in France, 117
 in Holland, 641
 in Victoria, Aust., 116
 irrigation, 2451
 Japanese (*Juglans sieboldiana*), 688
 manuring, 642, 2172
 nematodes, tolerance to, 1485
 nitrogen assimilation by bacterial symbionts, 1251
 parthenogenesis in, 1417
 photosynthesis, 1414
 pollination, 1415
 propagation by layering and stool beds, 1418
 pruning, 643
 root, growth inhibitor secreted by, 2193
 rootstocks, 116, 1485, 2172
 seed germination, 23
 temperature sums for, 83
 varieties, late flowering, 1413
 vitamin C content, 453, 1146
 witches' broom virus, 688
 Waste land, vegetation on industrial, 2143
 Water—
 absorption by root hairs, 524
 congestion and disease susceptibility, 6
 conservation, 1163
 culture—*see* Soilless culture
 hyacinth control, 1591, 1592
 in plant physiology, 1159
 relations of plant cells, 2209
 requirements—
 of fruit trees, 2370
 of plants, supply determines, 525
 soil, relationships, 1164
 Watercress—
 "crook root" (*Spongopora* sp.), 880
 cultivation, 467
 distribution in Gt Britain and taxonomy, 879
 iodine content, 2128
 Wattle—
 growing—
 in California, 3025
 in Tanganyika and Nyasaland, 3443
 Res. Inst.—
 A.R. 1949, 3443
 work at, 342
 transpiration, 1274k
 Wax, yields affected by age of plant, 3388
 Weather—*see also* Climate and Meteorology—
 disease and pest incidence affected by, 1566c
 forecasting, 1221, 1222
 in Kent in 1949, 2186
 records at Vineland, Ontario, 3430
 Station at Throwley, Kent, crop, 2186
 Weed(s)—*see also particular crops and weeds and Herbicides*—
 control—
 biological, 1577, 1594c, 2162
 in bulbs, 212, 3428
 in cereals, 2712a

SUBJECT INDEX

- Weed(s)—*continued*
 in conifer seedbeds, 2707
 by flame, 239, 2692
 by growth substances—*see* Growth substances, herbicides
 in horticultural crops, 204
 a manual on, 2123
 in orchards, 2701, 2702
 pre-emergence—*see below*, soil treatment in root crops, 1579
 by soil treatment, 206-211, 214-218, 221-225, 230, 788, 795, 1180, 1569, 1579, 1591, 2670-2672, 2696, 2699
 in vegetables, 208, 210, 212, 214-218, 2687-2690
 of Fiji Islands, 241b
 of Italy, 200, 1575
 of Kansas, 1594a
 of Utah, 199
Weigela cuttings, 1856
 West African Cacao Res. Inst., Tafo—
 A.R. 1947/48, 2174
 work at, 1983
 West of Scotland agric. Coll.—
 A.R. 1948/49, 2178c
 work at, 1203
 Western Province Fruit Res. Stat., A.R. 1948/49 ?, 1198
 White grub—*see also* Cockchafer—167, 244, 1180, 1500, 1501, 1814
 Wilfordine, an insecticidal alkaloid, 1565
 Windbreaks—
 fruit trees as components of, 1285
 trees for, 23, 127, 128, 674, 675, 1189, 1453-1455, 2488-2490, 3111, 3142
 for vegetables, 263, 2801
 for water conservation, 1163
 Windsor tobacco substat., Conn., Rep. 1945, 343a
 Winter moth—*see also* *Cheimatobia*—2661h
 Wireworm control—*see also* *particular crops*—
 320, 914, 916, 1119, 1611, 1614, 1625, 1956, 2748-2750
 Wisteria pruning, 1876
 Wood—
 microscopic examinations of, 535a
 preservatives, 2382
 Woody plants—
 control of undesirable, 2708-2711
 seed production of, 1160
World of Learning 1950, *the*, 2132
 Wound healing—*see also* Pruning wounds—
 1337
 Wye College, Dep. of Hop Res., A.R. 1949, 3444
Xanthium—
pennsylvanicum, xanthatin, an antibiotic, from, 2660y
 spp., photoperiodic reaction in, 48b, 48c
Xanthomonas—
campestris, 1646
corylina, 690
pruni, 695
solanacearum—*see* Tomato bacterial wilt
nigromaculans, 1835
 D-xyloketose, a growth stimulant, 2237
 Yam bean, 1192, 2157, 2162
 Yemen, agriculture of, 3198
 Yew, *Lecanium* sp. on, 3101
 Youngberry × blackberry hybrid, 103
Yucca brevifolia, vanillin from, 3025
 Yugoslavia, hop growing, 2986
 Zanzibar—
 clove growing, 3218
 Dep. Agric., A.R. 1948, 1200
 Zinc—
 content of apple leaves, 486
 copper toxicity reduced by, 33
 deficiency—
 in apple, 124, 656, 665, 2470, 2473
 in maize, 864
 in pear, 2470
 in tung, 3181
 in vine, 664
 determination, 486, 2150
 and respiration, 32
Zingiberaceae in Malaya, 3363 I
 Zinnia—
 leaf spot, bacterial, 1195, 1835
 variety trials, 1824
 Zirconium, absorption of radioactive, 2231
Zizyphus jujube—*see* Jujube
Zonocerus—
elegans, 3329
variegatus, 2158
 Zuid-Hollandsch Glasdistrict Exp. Stat., Naaldwijk—*see also* Naaldwijk—A.R. 1948, 2165
 Zürich-Oerlikon agric. Res. Stat., A.R. 1948/49, 3445
 Zwetschen, propagation on own roots, 2341

List of Publications, other than books, regularly examined in the compilation of Horticultural Abstracts
—with special reference to Vol. XX, 1950.

N.B.—This does not include books or publications, occasional numbers of which have been brought to the attention of the Bureau.

It is, moreover, inevitable that some of the publications listed will have ceased to appear or will have changed their names or have become temporarily unavailable at the date of publication of this index.

<i>Publication</i>	<i>Suggested abbreviation</i>
Abstracts on Agricultural and Horticultural Engineering, Silsoe, Beds.	Abstr. agric. hort. Engng
Abstracts from Current Scientific and Technical Literature, London	Abstr. curr. sci. tech. Lit.
Acta Agriculturae Suecana, Stockholm	Acta Agric. suec.
Acta Entomologica Fennica, Helsinki	Acta ent. fenn.
Acta Universitatis Agriculturae et Silviculturae Brno, Czechoslovakia	Acta Univ. Agric. Silv. Brno
Administration Report Ceylon Director of Agriculture, Colombo	Administ. Rep. Dir. Agric. Ceylon
Advancement of Science, London	Advanc. Sci.
Advisory Circular Coconut Research Scheme, Ceylon, Colombo	Adv. Circ. Coconut Res. Sch. Ceylon
Advisory Circular Rubber Research Scheme, Peradeniya, Ceylon	Adv. Circ. Rubb. Res. Sch. Ceylon
Advisory Leaflet Department of Agriculture for Scotland, Edinburgh	Adv. Leaf. Dep. Agric. Scot.
Advisory Leaflet Ministry of Agriculture, London	Adv. Leaf. Minist. Agric. Lond.
Advisory Leaflet National Agricultural Advisory Service, London	Adv. Leaf. N.A.A.S. Lond.
Agrártudomány, <i>see</i> Agricultural Science, Budapest	
Agrártudományi Egyetem Kert-és Szőlőgazdaságtudományi Karának Közleményei, <i>see</i> Bulletin of the Faculty of Horticulture and Viticulture, Budapest	
Agricultor Venezolano, Caracas, Venezuela	Agric. venezol.
Agricoltura delle Venezie, Venice	Agric. Venezia
Agricultura Técnica, Santiago, Chile	Agric. téc. Chile
Agricultura Tropical, Bogotá, Colombia	Agric. trop. Bogotá
Agricultural Experiment Activities of the State [Finland] Publication, <i>see</i> Valtion Maatalousk . . .	
Agricultural Chemicals, Baltimore, Md	Agric. Chemls
Agricultural Gazette of New South Wales, Sydney	Agric. Gaz. N.S.W.
Agricultural Journal Department of Agriculture, Suva, Fiji	Agric. J. Dep. Agric. Fiji
Agricultural Literature References to Boron and Minor Elements, issued quarterly by Borax Consolidated Ltd., London	Agric. Lit. Refs Boron
Agricultural Newsletter, Wilmington, Del.	
Agricultural Science, Budapest	Agric. Newsl.
Agricultural Statistics, London	Agric. Sci. Buda.
Agricultural Statistics, U.S. Department of Agriculture, Washington, D.C.	Agric. Statist. Lond.
Agriculture. Journal of the Ministry of Agriculture, London	Agric. Statist. U.S.
Agriculture. Revue Trimestrielle de la Corporation des Agronomes de la Province de Quebec, Canada	Agriculture, Lond.
Agrobiologija (Agrobiology), Moscow [Russian]	Agriculture, Quebec
Agronomia Angolana, Luanda, Angola	
Agronomia Lusitana, Sacavem, Portugal	Agron. angol.
Agronomie Tropicale. Publication Mensuelle du Ministère des Colonies, Nogent-sur-Marne	Agron. lusit.
	Agron. trop.

LIST OF PUBLICATIONS

Publication

Agronomy Journal, Madison, Wis.
 Agriculture Pakistan, Karachi
 Almanaque Agrícola de Guatemala, Guatemala
 American Fruit Grower, Cleveland, Ohio
 American Journal of Botany, Lancaster, Pa
 American Nurseryman, Chicago
 American Potato Journal, New Brunswick, New Jersey
 American Potato Yearbook, New York
 American Tomato Yearbook, New York
 Anais do Instituto Superior de Agronomia, Lisbon
 Anales de Edafología y Fisiología Vegetal, Madrid
 Anales de la Escuela de Peritos Agrícolas, Barcelona
 Anales de la Estación Experimental de Aula Dei, Zaragoza
 Anales del Jardín Botánico de Madrid
 Analyst, London
 Analytica Chimica Acta, Amsterdam
 Analytical Chemistry, Easton, Pa
 Annales Academiæ Scientiarum Fennicæ Ser. A. IV.
 Biologica, Helsinki, *see* Suomalaisen Tiedeakademian
 Toimituksia. Biologica
 Annales Academiæ Scientiarum Fennicæ Ser. A. II.
 Chemica, Helsinki, *see* Suomalaisen Tiedeakademian
 Toimituksia. Chemica
 Annales de l'École Nationale d'Agriculture de Mont-
 pellier, Montpellier
 Annales Entomologici Fennici, *see* Suomen Hyönteistie-
 teellinen Aikakauskirja
 Annales des Épiphyties, Paris
 Annales de Gembloux, Gembloux, Belgium
 Annales de l'Institut Agricole et des Services de Recher-
 ches et d'Expérimentation Agricoles de l'Algérie,
 Alger.
 Annales de l'Institut National Agronomique, Paris
 Annales de l'Institut National de la Recherche Agrono-
 mique. Série A. Annals Agronomiques, Paris
 Annales du Service Botanique et Agronomique de la
 Direction des Affaires Économiques de Tunisie,
 Tunis
 Annali della Facoltà di Agraria di Portici dell' Università
 di Napoli, Portici
 Annali della Sperimentazione Agraria, Roma
 Annali della Stazione Sperimentale di Viticoltura ed
 Enologia, Conegliano
 Annals of Applied Biology, Cambridge
 Annals of Botany, London
 Annals of the Czechoslovak Academy of Agriculture,
 Prague* (Sborník Československé Akademie
 Zemědělské)
 Annals and Magazine of Natural History, London
 Annals of the Royal Agricultural College of Sweden,
 Uppsala (Kungl. Lantbrukshögskolans Annaler)
 Annual Conference New Zealand Fruitgrowers' Federa-
 tion Ltd., Wellington
 Annual Reports of the Agricultural Officer Pyrethrum
 Services, Kenya, Nairobi
 Annual Report Agricultural Research Institute of
 Northern Ireland, Hillsborough
 Annual Report Alaska Agricultural Experiment Stations,
 College, Sitka
 Annual Report Arizona Agricultural Experiment
 Station, Tucson

Suggested abbreviation

Agron. J.
 Agric. Pakistan
 Alman. agric. Guatemala
 Amer. Fruit Gr
 Amer. J. Bot.
 Amer. Nurserym.
 Amer. Potato J.
 Amer. Potato Yearb.
 Amer. Tomato Yearb.
 An. Inst. sup. Agron. Lisbon
 An. Edaf. Fis. veg. Madrid
 An. Esc. Perit. agric. Barcelona
 An. Estac. exp. Aula Dei
 An. Jard. bot. Madrid
 Analyst
 Analyst. chim. Acta
 Analyt. Chem.

 Ann. Éc. Agric. Montpellier

 Ann. Épiphyt.
 Ann. Gembl.
 Ann. Inst. agric. Algér.

 Ann. Inst. nat. agron.
 Ann. agron. Sér. A

 Ann. Serv. bot. agron. Tunis

 Ann. Fac. Agrar. Portici

 Ann. Sper. agrar.
 Ann. Staz. sper. Vitic. Conegliano

 Ann. appl. Biol.
 Ann. Bot. Lond.
 Ann. Czech. Acad. Agric.

 Ann. Mag. nat. Hist.
 Ann. roy. agric. Coll. Sweden

 Annu. Conf. N.Z. Fruitgr. Fed.

 A.R. agric. Off. Pyreth. Serv. Kenya

 A.R. Hillsborough agric. Res. Inst. N.
 Ireland
 A.R. Alaska agric. Exp. Stats.

 A.R. Ariz. agric. Exp. Stat.

* Not received since 1948.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Annual Report Arkansas Agricultural Experiment Station, Fayetteville	A.R. Ark. agric. Exp. Stat.
Annual Report Australia Council for Scientific and Industrial Research,* Canberra	A.R. Coun. sci. industr. Res. Aust.
Annual Report Barbados Department of Science and Agriculture, Bridgetown	A.R. Barbados Dep. Sci. Agric.
Annual Report Basutoland Department of Agriculture, Bloemfontein	A.R. Basutoland Dep. Agric.
Annual Report Bermuda Department of Agriculture, Paget East	A.R. Bermuda Dep. Agric.
Annual Report British Columbia Department of Agriculture, Victoria, B.C.	A.R. B.C. Dep. Agric.
Annual Report British Columbia Department of Agriculture, Agricultural Statistics Report, Victoria, B.C.	A.R. B.C. Dep. Agric. agric. Statist.
Annual Report British Columbia Department of Agriculture, Climate of British Columbia, Victoria, B.C.	A.R. B.C. Dep. Agric. Climate
Annual Report British Council, London	A.R. Brit. Coun. Lond.
Annual Report British Honduras Department of Agriculture, Belize	A.R. Brit. Honduras Dep. Agric.
Annual Report British West Indies Central Sugar Cane Breeding Station, Barbados	A.R. B.W.I. centr. Sugar Cane Breed. Stat. Barbados
Annual Report Brooklyn Botanic Garden, New York	A.R. Brooklyn bot. Gdn
Annual Report Bureau of Sugar Experiment Stations, Brisbane, Queensland	A.R. Bur. Sugar Exp. Stats Brisbane
Annual Report Canada Department of Agriculture, Canadian Committee on Food Preservation, National Research Council of Canada, Ottawa	A.R. Canada Dep. Agric., Canad. Cttee Food Pres., N.R.C.
Annual Report Canada Department of Agriculture Forest Insect Survey, Division of Entomology. Science Service, Ottawa	A.R. Canada Dep. Agric. For. Insect Surv.
Annual Report Canada Department of Agriculture, Fruit and Vegetable Products Research Committee, Ottawa	A.R. Canada Dep. Agric. Fruit Veg. Prod. Res. Cttee
Annual Report Canada Department of Agriculture, Science Service, Ottawa	A.R. Canada Dep. Agric. Sci. Serv.
Annual Report Canada Minister of Agriculture, Ottawa	A.R. Canada Minist. Agric.
Annual Report Canada National Research Council, Ottawa	A.R. nat. Res. Coun. Canada
Annual Report Canterbury Agricultural College, Lincoln, N.Z.	A.R. Canterbury agric. Coll.
Annual Report Cawthron Institute, Nelson, N.Z.	A.R. Cawthron Inst.
Annual Report Chemical Society, London	A.R. chem. Soc. Lond.
Annual Report Cheshunt Experimental and Research Station, Cheshunt, Herts., England	A.R. Cheshunt exp. Res. Stat.
Annual Report Coconut Research Scheme, Ceylon, Colombo	A.R. Coconut Res. Sch. Ceylon
Annual Report Coffee Research and Experiment Station, Lyamungu, Moshi	A.R. Coffee Res. Exp. Stat. Lyamungu
Annual Report Colonial Development Corporation, London	A.R. colon. Develop. Corp. Lond.
Annual Report Colonial Insecticides (Fungicides and Herbicides) Committee, London	A.R. colon. Insecticides Cttee
Annual Report Colonial Research Committee, London	A.R. colon. Res. Cttee, Lond.
Annual Report Colorado Agricultural Experiment Station, Fort Collins	A.R. Colo. agric. Exp. Stat.
Annual Report Commonwealth Agricultural Bureaux, London	A.R. Commw. agric. Bur. Lond.
Annual Report Commonwealth Scientific and Industrial Research Organization, Australia, Melbourne	A.R. Commonw. sci. industr. Res. Org. Aust. or A.R. C.S.I.R.O. Aust.
Annual Report Cyprus Department of Agriculture, Nicosia	A.R. Cyprus Dep. Agric.

* Now Commonwealth Scientific and Industrial Research Organization (C.S.I.R.O.).

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Annual Report Delaware State Board of Agriculture, Dover	A.R. Del. St. Bd Agric.
Annual Report Dominica Department of Agriculture, Roseau	A.R. Dominica Dep. Agric.
Annual Report Dominion Experimental Farms, Department of Agriculture, Ottawa	A.R. Domin. exp. Fms, Dep. Agric., Ottawa
Annual Report East African Agriculture and Forestry Research Organization, Nairobi	A.R. E. Afr. Agric. For. Res. Org.
Annual Report East Malling Research Station, near Maidstone, Kent, England	A.R. East Malling Res. Stat.
Annual Report Edinburgh and East of Scotland College of Agriculture, Edinburgh	A.R. Edinb. Coll. Agric.
Annual Report Éire Department of Agriculture, Dublin	A.R. Dep. Agric. Dublin
Annual Report Fernley Observatory, Southport	A.R. Fernley Observatory, Southport
Annual Report Fiji Department of Agriculture, Suva	A.R. Fiji Dep. Agric.
Annual Report Florida Agricultural Experiment Station, Gainesville	A.R. Fla agric. Exp. Stat.
Annual Report Food Investigation Board, London	A.R. Food Invest. Bd, Lond.
Annual Report, Forestry Commission, on Forest Research, London, <i>see</i> Report on Forest Research, London	
Annual Report Forestry Commissioners, London	A.R. For. Comm. Lond.
Annual Report Fruit and Vegetable Preservation Research Station, Campden, Gloucestershire, England	A.R. Fruit Veg. Pres. Res. Stat. Campden
Annual Report Georgia [Agricultural] Experiment Station, Experiment	A.R. Ga Exp. Stat.
Annual Report Gold Coast Department of Agriculture, Accra	A.R. Gold Coast Dep. Agric.
Annual Report Gulval Experimental Station, Cornwall	A.R. Gulval exp. Stat.
Annual Report Hawaii Agricultural Experiment Station, Honolulu, Hawaii	A.R. Hawaii agric. Exp. Stat.
Annual Report Hong Kong Senior Agricultural Officer	A.R. Hong Kong Senior agric. Officer
Annual Report Horticultural Education Association*	A.R. hort. Educ. Ass.
Annual Report Idaho Agricultural Experiment Station, Moscow, Idaho	A.R. Idaho agric. Exp. Stat.
Annual Report Imperial College of Tropical Agriculture, St. Augustine, Trinidad	A.R. imp. Coll. trop. Agric., Trinidad
Annual Report Imperial Forestry Institute, Oxford	A.R. imp. For. Inst. Oxford
Annual Report Indian Council of Agricultural Research, New Delhi	A.R. Indian Coun. agric. Res.
Annual Report Indian Tea Association, Scientific Department, Tocklai Experimental Station, Calcutta	A.R. Indian Tea Ass., sci. Dep., Tocklai
Annual Report Indiana Agricultural Experiment Station, Lafayette	A.R. Ind. agric. Exp. Stat.
Annual Report Institute of Plant Industry, Indore	A.R. Inst. Plant Ind., Indore
Annual Report Inter-American Institute of Agricultural Sciences, Washington, D.C.	A.R. Inter-Amer. Inst. agric. Sci. Wash. D.C.
Annual Report Iowa Agricultural Experiment Station, Ames, Iowa	A.R. Ia agric. Exp. Stat.
Annual Report Isle of Man Board of Agriculture and Fisheries, Douglas	A.R. Bd Agric. Douglas
Annual Report Jamaica Department of Science and Agriculture, Kingston	A.R. Jamaica Dep. Agric.
Annual Report John Innes Horticultural Institution, Merton and Bayfordbury	A.R. John Innes hort. Instn
Annual Report Kentucky Agricultural Experiment Station, Lexington	A.R. Ky agric. Exp. Stat.
Annual Report Kenya Department of Agriculture, Nairobi	A.R. Kenya Dep. Agric.
Annual Report Land Settlement Association, London	A.R. Land Settle. Ass.

* Secretary at Long Ashton, Bristol.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Annual Report Long Ashton Agricultural and Horticultural Research Station, Bristol, England	A.R. Long Ashton agric. hort. Res. Stat.
Annual Report Macaulay Institute for Soil Research, Craigiebuckler	A.R. Macaulay Inst. Soil Res.
Annual Report Madras Department of Agriculture, Agricultural Stations in the Madras Presidency, Madras	A.R. Madras Dep. Agric. agric. Stats
Annual Report Maine Agricultural Experiment Station, Orono	A.R. Me agric. Exp. Stat.
Annual Report Malaya Department of Agriculture, Kuala Lumpur	A.R. Malaya Dep. Agric.
Annual Report Malta Department of Agriculture, Valetta	A.R. Malta Dep. Agric.
Annual Report Massachusetts Agricultural Experiment Station, Amherst	A.R. Mass. agric. Exp. Stat.
Annual Report Mauritius Department of Agriculture, Port Louis	A.R. Mauritius Dep. Agric.
Annual Report Michigan Board of Agriculture, Lansing	A.R. Mich. Bd Agric.
Annual Report Minister of Agriculture for the Dominion of Canada, Ottawa, <i>see</i> Annual Report Canada Minister of Agriculture	
Annual Report Minnesota Agricultural Experiment Station, St. Paul	A.R. Minn. agric. Exp. Stat.
Annual Report Mississippi Agricultural Experiment Station, Agricultural College	A.R. Miss. agric. Exp. Stat.
Annual Report Missouri Agricultural Experiment Station, Columbia	A.R. Mo. agric. Exp. Stat.
Annual Report Missouri Extension Service, Columbia	A.R. Mo. Ext. Serv.
Annual Report Mushroom Research Station, Yaxley, Peterborough, England	A.R. Mushroom Res. Stat. Yaxley
Annual Report National Institute of Agricultural Botany, Cambridge	A.R. nat. Inst. agric. Bot. Cambridge
Annual Report National Institute of Agricultural Engineering, Silsoe, Beds.	A.R. nat. Inst. agric. Engng
Annual Report National Weed Committee Ottawa, Eastern Section	A.R. east. Sect. nat. Weed Cttee, Ottawa
Annual Report Nebraska Agricultural Experiment Station, Lincoln	A.R. Neb. agric. Exp. Stat.
Annual Report New Hampshire Agricultural Experiment Station, Durham	A.R. N.H. agric. Exp. Stat.
Annual Report New Jersey State Agricultural Experiment Station, New Brunswick	A.R. N.J. agric. Exp. Stat.
Annual Report New Zealand Department of Agriculture, Wellington	A.R. N.Z. Dep. Agric.
Annual Report New Zealand Department of Scientific and Industrial Research, Wellington	A.R. Dep. sci. industr. Res. N.Z.
Annual Report New York State Agricultural Experiment Station, Geneva, N. York	A.R. N.Y. St. agric. Exp. Stat.
Annual Report Nigeria Agricultural Department, Lagos	A.R. Nigeria agric. Dep.
Annual Report North Carolina Agricultural Experiment Station, Raleigh	A.R. N.C. agric. Exp. Stat.
Annual Report North Carolina Agricultural Extension Service, Raleigh	A.R. N.C. agric. Ext. Serv.
Annual Report Northern Rhodesia Department of Agriculture, Mazabuka	A.R. N. Rhod. Dep. Agric.
Annual Report Nova Scotia Fruit Growers' Association, Kentville	A.R. N. Scotia Fruit Gr. Ass.
Annual Report Nyasaland Department of Agriculture, Zomba	A.R. Nyasaland Dep. Agric.
Annual Report Ohio Agricultural Experiment Station, Wooster	A.R. Ohio agric. Exp. Stat.
Annual Report Oil Palm Research Station, Nigeria, Benin	A.R. Oil Palm Res. Stat. Nigeria
Annual Report Ontario Department of Agriculture, Toronto	A.R. Ont. Dep. Agric.

LIST OF PUBLICATIONS

Publication

Suggested abbreviation

Annual Report Oregon Agricultural Experiment Station, Corvallis	A.R. Ore. agric. Exp. Stat.
Annual Report Overseas Food Corporation, Scientific Department, East Africa. London	A.R. Overseas Food Corp., sci. Dep., E. Afr.
Annual Report Pennsylvania Agricultural Experiment Station, State College	A.R. Pa agric. Exp. Stat.
Annual Reports on the Progress of Chemistry, London	A.R. Progr. Chem.
Annual Report Puerto Rico Agricultural Experiment Station, Rio Piedras	A.R. P.R. agric. Exp. Stat. Rio Piedras
Annual Report Puerto Rico Institute of Tropical Agriculture, Mayagüez	A.R. P.R. Inst. trop. Agric. Mayagüez
Annual Report Pyrethrum Board of Kenya, Nakuru	A.R. Pyreth. Bd Kenya
Annual Report Queensland Acclimatisation Society, Brisbane	A.R. Qd Acclim. Soc.
Annual Report Queensland Department of Agriculture and Stock, Brisbane	A.R. Qd Dep. Agric. Stk
Annual Report of the Research Department of the Indian Coffee Board, Balehonnur	A.R. Res. Dep. Indian Coffee Bd
Annual Report Rhode Island Agricultural Experiment Station, Kingston	A.R. R.I. agric. Exp. Stat.
Annual Report Rothamsted Experimental Station, Harpenden, England	A.R. Rothamsted exp. Stat.
Annual Report Rubber Research Institute of Malaya, Kuala Lumpur	A.R. Rubb. Res. Inst. Malaya
Annual Report Rural Industries Bureau, London	A.R. Rur. Ind. Bur. Lond.
Annual Report Sarawak Department of Agriculture, Kuching	A.R. Sarawak Dep. Agric.
Annual Report Scottish Society for Research in Plant Breeding, Edinburgh	A.R. Scot. Soc. Res. Plant Breed.
Annual Report Seychelles Department of Agriculture, Mahé	A.R. Seychelles Dep. Agric.
Annual Report Sierra Leone Department of Agriculture, Freetown	A.R. Sierra Leone Dep. Agric.
Annual Report Sisal Experimental Station, Tanganyika Department of Agriculture, Dar es Salaam	A.R. Sisal exp. Stat. Tanganyika
Annual Report Society of Chemical Industry, London	A.R. Soc. chem. Ind. Lond.
Annual Reports of the Society of Chemical Industry on the Progress of Applied Chemistry	A.R. Progr. appl. Chem.
Annual Report of the Society for Experimental Biology, Cambridge	A.R. Soc. exp. Biol. Cambridge
Annual Report South Australia Department of Agriculture, Adelaide	A.R. S. Aust. Dep. Agric.
Annual Report St. Lucia Department of Agriculture, St. Lucia	A.R. St. Lucia Dep. Agric.
Annual Report St. Vincent Agricultural Department, Kingstown	A.R. St. Vincent agric. Dep.
Annual Report Sugar Cane Research Station, Port Louis, Mauritius	A.R. Sugar Cane Res. Stat. Mauritius
Annual Report Swaziland Department of Native Land Settlement	A.R. Swaziland Dep. Native Land Settlement
Annual Report Tanganyika Department of Agriculture, Dar es Salaam	A.R. Tanganyika Dep. Agric.
Annual Report Tea Culture in Assam. Director of Agriculture, Assam. Shillong	A.R. Tea Culture in Assam
Annual Report Tea Research Institute of Ceylon, St. Coombs, Talawakelle	A.R. Tea Res. Inst. Ceylon
Annual Report Texas Agricultural Experiment Station, College Station	A.R. Tex. agric. Exp. Stat.
Annual Report on Tobacco Statistics, Washington, D.C., see A.R. United States	
Annual Report Trelawney Tobacco Research Station, Tobacco Research Board of Southern Rhodesia, Salisbury	A.R. Trelawney Tobacco Res. Stat. S. Rhod.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Annual Report Trinidad and Tobago Department of Agriculture, Port of Spain	A.R. Trinidad Dep. Agric.
Annual Report Uganda Colonial Insecticide Research, Entebbe	A.R. Uganda colon. Insecticide Res.
Annual Report Uganda Department of Agriculture, Entebbe	A.R. 'Uganda Dep. Agric.
Annual Report United Planters' Association of Southern India, Tea Scientific Section, Madras	A.R. U.P.A.S.I., Tea sci. Sect.
Annual Report U.S. Department of Agriculture, Agricultural Experiment Stations, Washington, D.C.	A.R. U.S. Dep. Agric., agric. Exp. Stats
Annual Report U.S. Department of Agriculture, Chief of the Bureau of Agricultural and Industrial Chemistry, Agricultural Research Administration, Washington, D.C.	A.R. U.S. Dep. Agric., Chief Bur. agric. industr. Chem., agric. Res. Administ.
Annual Report U.S. Department of Agriculture, Chief of the Office of Experiment Stations, Agricultural Research Administration, Washington, D.C.	A.R. U.S. Dep. Agric., Chief Off. Exp. Stats, agric. Res. Administ.
Annual Report U.S. Department of Agriculture, Chief of the Soil Conservation Service, Washington, D.C.	A.R. U.S. Dep. Agric., Chief Soil Conserv. Serv.
Annual Report U.S. Department of Agriculture, Secretary of Agriculture, Washington, D.C.	A.R. U.S. Dep. Agric., Secy Agric.
Annual Report U.S. Department of Agriculture, Tobacco Statistics, Washington, D.C.	A.R. U.S. Dep. Agric., Tobacco Statist.
Annual Report Waite Agricultural Research Institute, Glen Osmond, South Australia	A.R. Waite agric. Res. Inst. S. Aust.
Annual Report Washington State Agricultural Experiment Station, Pullman	A.R. Wash. St. agric. Exp. Stat. Pullman
Annual Report Wattle Research Institute, Pietermaritzburg, S. Africa	A.R. Wattle Res. Inst. Pietermaritzburg
Annual Report West African Cacao Research Institute, Gold Coast, Tafo	A.R. W. Afr. Cacao Res. Inst.
Annual Report West of Scotland Agricultural College, Glasgow	A.R. W. Scot. agric. Coll.
Annual Report Wisconsin Agricultural Experiment Station, Madison	A.R. Wis. agric. Exp. Stat.
Annual Report Wye College, Department of Hop Research	A.R. Wye Coll., Dep. Hop Res.
Annual Report Wyoming Agricultural Experiment Station, Laramie	A.R. Wyo. agric. Exp. Stat.
Annual Report Zanzibar Department of Agriculture	A.R. Zanzibar Dep. Agric.
Annual Review of Biochemistry, Stanford, California	Annu. Rev. Biochem.
Annual Review of Microbiology, Stanford, California	Annu. Rev. Microbiol.
Annual Review of Plant Physiology, Stanford, California	Annu. Rev. Plant Physiol.
Årbog for Gartneri, Copenhagen	Årbog Gartneri
Arbres et Fruits, Lille, France	Arbres et Fruits
Archief voor de Koffiecultuur, Bogor (Buitenzorg)	Arch. Koffiecult.
Archief voor de Rubbercultuur, Bogor (Buitenzorg)	Arch. Rubbercult.
Archief voor de Theecultuur, Bogor (Buitenzorg)	Arch. Theecult.
Archiv der Julius Klaus Stiftung, Zürich	Arch. Klaus Stift.
Archives of Biochemistry, Lancaster, Pa	Arch. Biochem.
Arquivos do Instituto Biológico, São Paulo, Brazil	Arq. Inst. biol. S. Paulo
Årsberetning fra Norges Landbrukshøgskole, Oslo	Årsberetn. Norges LandbrHøgsk.
Årsbok Svensk Jordbruks Forskning, Stockholm	Årsb. svensk Jordbr. Forskn.
Årsskrift för Lantbruks- och Mejeri Trädgårdsinstitut vid Ålnarp, Sweden	Årsskr. Lantbr. Trädgårdst.
Årsskrift utgitt av det Norske Hageselskap, <i>see</i> Frukt og Baer	
Asgrow Monograph, Associated Seed Growers Inc., New Haven, Connecticut	Asgrow Monogr.
Aslib Book-List, London	
Atti Accademia Italiana Della Vite e del Vino Siena, Firenze	Atti Accad. ital. Vite
Atti dell'Istituto Botanica della Università di Pavia, Milano	Atti Ist. bot. Univ. Pavia

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Australian Journal of Agricultural Research, Melbourne	Aust. J. agric. Res.
Australian Journal of Science, Sydney, N.S.W.	Aust. J. Sci.
Australian Journal of Scientific Research, Series B, Biological Sciences, Melbourne, Victoria	Aust. J. sci. Res., Ser. B, biol. Sci.
Australian Sugar Journal, Brisbane	Aust. Sugar J.,
The Bee World, London	Bee World
Beretning fra Faellesudvalget for Prøvedyrkning af Køkkenurter, Copenhagen	Beret. Faellesudv. Prøvedyrkn. Køkken.
Bergcultures, Djakarta, Indonesia	Bergcultures
Bericht Plantenziekenkundige Dienst, Wageningen	Ber. PlZiekt. Dienst
Bericht über die Tätigkeit der Bundesanstalt für alpine Landwirtschaft in Admont, Austria	Ber. Bundesanst. alpine Landw. Admont
Berichte des Deutschen Wetterdienstes in der US-Zone, Bad Kissingen	Ber. dtsch. Wetterdienst. U.S. Zone
Berichte der Schweizerischen Botanischen Gesellschaft, Bern	Ber. schweiz. bot. Ges.
Better Crops with Plant Food, Washington, D.C.	Bett. Crops
Better Fruit, Portland, Oregon	Bett. Fruit
Bibliographical Bulletin United States Department of Agriculture, Washington, D.C.	Bibl. Bull. U.S. Dep. Agric.
Bibliography of Agriculture, Washington, D.C.	Bibl. Agric. Wash.
Bibliography of Meteorological Literature, London	Bibl. met. Lit. Lond.
Biennial Report Hawaii Agricultural Experiment Station, Honolulu	Bienn. Rep. Hawaii agric. Exp. Stat.
Biennial Report Oklahoma Agricultural Experiment Station, Stillwater	Bienn. Rep. Okla. agric. Exp. Stat.
Biennial Report State College of Washington, Board of Regents, Pullman	Bienn. Rep. St. Coll. Wash.
Biennial Report Utah Agricultural Experiment Station, Logan	Bienn. Rep. Utah agric. Exp. Stat.
Biennial Report West Virginia Agricultural Experiment Station, Morgantown	Bienn. Rep. W. Va agric. Exp. Stat.
Biochemical Journal, Liverpool	Biochem. J.
Biochemistry [Russian], <i>see</i> Biohimija	
Biochimica et Biophysica Acta, Amsterdam	Biochim. biophys. Acta
Biohimija (Biochemistry) Moscow [Russian]	Biohimija
Biological Abstracts, Menasha, Wis.	Biol. Abstr.
Biological Reviews and Biological Proceedings of the Cambridge Philosophical Society, Cambridge	Biol. Rev.
O Biológico, São Paulo, Brazil	Biológico
Biologisches Zentralblatt, Leipzig	Biol. Zbl.
Biometrics, Washington, D.C.	Biometrics
Biometrika, Cambridge	Biometrika
Bodenkultur, Vienna	Bodenkultur
Boletim Junta Nacional das Frutas, Lisbon	Bol. Junta nac. Frut. Lisbon
Boletim do Ministerio da Agricultura, Rio de Janeiro, Brazil	Bol. Minist. Agric. Rio de J.
Boletim Técnico do Instituto Agronómico do Norte, Belém, Para, Brazil	Bol. téc. Inst. agron. Norte, Belém
Boletín Dirección de Frutas, Hortalizas y Flores, Buenos Aires, Argentina	Bol. Dir. Frut., B. Aires
Boletín Estación Experimental Agrícola, Rio Piedras, Puerto Rico	Bol. Estac. exp. agríc. Rio Piedras
Boletín de la Estación Experimental Agrícola de Tucumán, Argentina	Bol. Estac. exp. agríc. Tucumán
Boletín Estación Experimental Agrícola en Tingo María, Peru	Bol. Estac. exp. agríc. Tingo María
Boletín Estación Experimental Agronómica, Santiago de las Vegas, Cuba	Bol. Estac. exp. agron. Santiago de las Vegas
Boletín Estación Experimental de Aula Dei, Zaragoza, Spain	Bol. Estac. exp. Aula Dei

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Boletín de la Estación Experimental Cinco Saltos, Rio Negro, Argentina	Bol. Estac. exp. Cinco Saltos
Boletín Estación Experimental Citrícola de Concordia, Argentina	Bol. Estac. exp. citric. Concordia
Boletín Facultad de Agronomía y Veterinaria de la Universidad de Buenos Aires	Bol. Fac. Agron. Vet. Univ. B. Aires
Boletín Instituto Experimental de Agricultura y Zootécnica, El Valle, Venezuela	Bol. Inst. exp. Agric. Zootéc. El Valle
Boletín del Instituto Nacional de Investigaciones Agronómicas, Madrid	Bol. Inst. Invest. agron. Madrid
Boletín Técnico Sección de Publicaciones y Biblioteca, Ministerio de Agricultura e Industrias, Costa Rica	Bol. téc. Secc. Publ. y Bibl. Costa Rica
Bollettino della Stazione di Patologia Vegetale di Roma, Rome	Boll. Staz. Pat. veg. Roma
Bollettino Stazione Sperimentale di Frutticoltura e di Agrumicoltura, Acireale	Boll. Staz. Frutt. Agrum. Acireale
Botanical Gazette, Chicago, Ill.	Bot. Gaz.
Botanical Review, Lancaster, Pa	Bot. Rev.
Bragantia, Campinas, São Paulo, Brazil	Bragantia
British Abstracts, London	Brit. Abstr.
British Agricultural Bulletin, London	Brit. agric. Bull.
British Farmer, London	Brit. Fmr
British Science News, London	Brit. Sci. News
Brooklyn Botanic Garden Record, Plants and Gardens, Lancaster, Pa	Brooklyn bot. Gdn Rec.
Buletin de Documentare Tehnica, Bucarest	Bul. Doc. tehn. Buc.
Bulletin Agricole du Congo Belge, Bruxelles	Bull. agric. Congo belge
Bulletin Agronomique Ministère de la France d'Outre Mer, Paris	Bull. agron. Minist. France d'Outre Mer
Bulletin Arizona Agricultural Experiment Station, Tucson	Bull. Ariz. agric. Exp. Stat.
Bulletin Arkansas Agricultural Experiment Station, Fayetteville	Bull. Ark. agric. Exp. Stat.
Bulletin California Agricultural Experiment Station, Berkeley	Bull. Calif. agric. Exp. Stat.
Bulletin of the Cawthron Institute	Bull. Cawthron Inst.
Bulletin Colorado Agricultural Experiment Station, Fort Collins	Bull. Colo. agric. Exp. Stat.
Bulletin Commonwealth Bureau of Pastures and Field Crops, Aberystwyth	Bull. Commw. Bur. Past. Aberystwyth
Bulletin Commonwealth Scientific and Industrial Research Organization, Australia, Melbourne*	Bull. Commonw. sci. industr. Res. Org. Aust. or Bull. C.S.I.R.O. Aust.
Bulletin Connecticut Agricultural Experiment Station, New Haven	Bull. Conn. agric. Exp. Stat.
Bulletin Cornell Agricultural Experiment Station, Ithaca, N.Y.	Bull. Cornell agric. Exp. Stat.
Bulletin Department of Agriculture, Alberta, Field Crops Branch, Edmonton	Bull. Dep. Agric. Alberta
Bulletin Department of Agriculture, Jamaica, Kingston	Bull. Dep. Agric. Jamaica
Bulletin Department of Agriculture Union of S. Africa,	Bull. Dep. Agric. S. Afr.
Bulletin Department of Science and Agriculture, Barbados	Bull. Dep. Sci. Agric. Barbados
Bulletin Department of Scientific and Industrial Research, New Zealand	Bull. Dep. sci. industr. Res. N.Z.
Bulletin of the Ecological Society of America, Fredericksburg, Virginia	Bull. ecol. Soc. Amer.
Bulletin of Entomological Research, London	Bull. ent. Res.
Bulletin d'Études et de Recherches Techniques, Bucarest	Bull. Ét. Rech. tech. Buc.
Bulletin of the Faculty of Horticulture and Viticulture, University of Agricultural Sciences, Budapest	Bull. Fac. Hort. Buda.

* Formerly Bulletin of the Council of Scientific and Industrial Research, Australia.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Bulletin Farm Mechanization Service, Victoria, Melbourne	Bull. Fm Mech. Serv. Melbourne
Bulletin Florida Agricultural Experiment Station, Gainesville	Bull. Fla agric. Exp. Stat.
Bulletin Georgia Experiment Station, Experiment	Bull. Ga Exp. Stat.
Bulletin Hawaii Agricultural Experiment Station, Honolulu	Bull. Hawaii agric. Exp. Stat.
Bulletin Idaho Agricultural Experiment Station, Moscow	Bull. Idaho agric. Exp. Stat.
Bulletin Illinois Agricultural Experiment Station, Urbana, Illinois	Bull. Ill. agric. Exp. Stat.
Bulletin of the Imperial Institute, London*	Bull. imp. Inst. Lond.
Bulletin of the Indian Central Coconut Committee, Ernakulam	Bull. Indian centr. Coconut Cttee
Bulletin Indian Coffee Board Research Department, Bangalore	Bull. Indian Coffee Bd Res. Dep.
Bulletin Inspection Générale et Direction de l'Agriculture de l'Algérie	Bull. Insp. gén. Dir. Agric. Algér.
Bulletin de l'Institut Agronomique et des Stations de Recherches de Gembloux, Belgium	Bull. Inst. agron. Gembloux
Bulletin Iowa Agricultural Experiment Station, Ames	Bull. Ia agric. Exp. Stat.
Bulletin du Jardin Botanique de l'État à Bruxelles, Belgium	Bull. Jard. bot. Bruxelles
Bulletin Jealott's Hill Research Station, Bracknell, Berks.	Bull. Jealott's Hill Res Stat.
Bulletin Kansas Agricultural Experiment Station, Manhattan	Bull. Kans. agric. Exp. Stat.
Bulletin Kentucky Agricultural Experiment Station, Lexington	Bull. Ky agric. Exp. Stat.
Bulletin Louisiana Agricultural Experiment Station, Baton Rouge	Bull. La agric. Exp. Stat.
Bulletin Louisiana Agricultural Mechanical College Division of Agricultural Extension, Baton Rouge	Bull. La Div. agric. Ext.
Bulletin Maine Agricultural Experiment Station, Orono	Bull. Me agric. Exp. Stat.
Bulletin Massachusetts Agricultural Experiment Station, Amherst	Bull. Mass. agric. Exp. Stat.
Bulletin (Sci. Ser.) Mauritius Department of Agriculture, Port Louis	Bull. (sci. Ser.) Mauritius Dep. Agric.
Bulletin Ministry of Agriculture, Egypt, Technical and Scientific Service, Cairo	Bull. Minist. Agric. Egypt
Bulletin Ministry of Agriculture, London	Bull. Minist. Agric. Lond.
Bulletin Minnesota Agricultural Experiment Station, St. Paul	Bull. Minn. agric. Exp. Stat.
Bulletin Mississippi Agricultural Experiment Station, State College	Bull. Miss. agric. Exp. Stat.
Bulletin Missouri Agricultural Experiment Station, Columbia	Bull. Mo. agric. Exp. Stat.
Bulletin Montana Agricultural Experiment Station, Bozeman	Bull. Mont. agric. Exp. Stat.
Bulletin Mushroom Growers Association, Yaxley, Peterborough	Bull. Mushroom Gr. Ass.
Bulletin New Hampshire Agricultural Experiment Station, Durham	Bull. N.H. agric. Exp. Stat.
Bulletin New Jersey Agricultural Experiment Station, New Brunswick	Bull. N.J. agric. Exp. Stat.
Bulletin New Mexico Agricultural Experiment Station, State College	Bull. N. Mex. agric. Exp. Stat.
Bulletin New York State Agricultural Experiment Station, Geneva	Bull. N.Y. St. agric. Exp. Stat.
Bulletin New York State Flower Growers	Bull. N.Y. St. Flower Gr.
Bulletin New Zealand Department of Agriculture, Wellington	Bull. N.Z. Dep. Agric.

* Now Colonial Plant and Animal Products.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Bulletin North Carolina Agricultural Experiment Station, Raleigh	Bull. N.C. agric. Exp. Stat.
Bulletin North of Scotland College of Agriculture, Aberdeen	Bull. N. Scot. Coll. Agric.
Bulletin de l'Office International du Vin, Paris	Bull. Off. int. Vin
Bulletin Ohio Agricultural Experiment Station, Wooster	Bull. Ohio agric. Exp. Stat.
Bulletin Oklahoma Agricultural Experiment Station, Stillwater	Bull. Okla. agric. Exp. Stat.
Bulletin Oregon Agricultural Experiment Station, Corvallis	Bull. Ore. agric. Exp. Stat.
Bulletin Pennsylvania Agricultural Experiment Station, State College	Bull. Pa agric. Exp. Stat.
Bulletin Plant Pathological Laboratory, Harpenden	Bull. Plant Path. Lab., Harpenden
Bulletin Puerto Rico Agricultural Experiment Station, Rio Piedras	Bull. P.R. agric. Exp. Stat. Rio Piedras
Bulletin Purdue University Agricultural Experiment Station, Lafayette, Indiana	Bull. Purdue Univ. Agric. Exp. Stat.
Bulletin Queensland Department of Agriculture and Stock, Division of Plant Industry, Brisbane	Bull. Qd Dep. Agric., Div. Plant Ind.
Bulletin Rehovot Agricultural Research Station, Israel	Bull. Rehovot agric. Res. Stat.
Bulletin Rhode Island Agricultural Experiment Station, Kingston	Bull. R.I. agric. Exp. Stat.
Bulletin Scientifique Ministère de la France d'Outre Mer, Paris	Bull. sci. Minist. France d'Outre Mer
Bulletin du Service Botanique et Agronomique de Tunisie, Tunis	Bull. Serv. bot. Tunis
Bulletin de la Société Botanique de France, Paris	Bull. Soc. bot. Fr.
Bulletin Southern Rhodesia Department of Agriculture, Salisbury	Bull. S. Rhod. Dep. Agric.
Bulletin Tea Research Institute, Talawakelle, Ceylon	Bull. Tea Res. Inst. Ceylon
Bulletin Texas Agricultural Experiment Station, College Station	Bull. Tex. agric. Exp. Stat.
Bulletin of the Torrey Botanical Club and Torrey, Lancaster, Pa	Bull. Torrey bot. Cl.
Bulletin Trelawney Tobacco Research Station, Southern Rhodesia	Bull. Trelawney Tobacco Res. Stat.
Bulletin Trimestriel de la Société Centrale d'Horticulture du Département de La Seine-Inférieure, Rouen	Bull. trimestr. Soc. centr. Hort. Seine-infér.
Bulletin Utah Agricultural Experiment Station, Logan	Bull. Utah agric. Exp. Stat.
Bulletin Vermont Agricultural Experiment Station, Burlington	Bull. Vt agric. Exp. Stat.
Bulletin Vineland Horticultural Experiment Station, Ontario	Bull. Vineland hort. Exp. Stat.
Bulletin Virginia Agricultural Experiment Station, Blacksburg	Bull. Va agric. Exp. Stat.
Bulletin Washington Agricultural Experiment Stations, Pullman and Puyallup	Bull. Wash. St. agric. Exp. Stats
Bulletin Wisconsin Agricultural Experiment Station, Madison	Bull. Wis. agric. Exp. Stat.
Bulletin Wyoming Agricultural Experiment Station, Laramie	Bull. Wyo. agric. Exp. Stat.
Butler University Botanical Studies, Indianapolis	Butler Univ. bot. Stud.
Cacao Information Bulletin,* Turrialba	Cacao Inf. Bull.
Cahiers I.R.C.I., Institut de Recherches sur le Caoutchouc en Indo-Chine, Lai Khe	Cah. Inst. Rech. Caoutch.
Caldasia, Bogotá, Colombia	Caldasia
California Citrograph, Los Angeles	Calif. Citrogr.
Canadian Food Industries, Gardenvale, Quebec	Canad. Food Ind.
Canadian Grower, Toronto	Canad. Gr

* Now Cacao.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Canadian Journal of Research, Ottawa, Sections B, C, D and F	Canad. J. Res.
Cane Growers' Quarterly Bulletin, Brisbane	Cane Grs' quart. Bull.
Ceres, Viçosa, <i>see</i> Revista Ceres	
Ceylon Coconut Quarterly, Lunuwila	Ceylon Coconut Quart.
Chemistry and Industry, London	Chem. Ind. Lond.
Chronica Botanica, Waltham, Mass.	Chron. Bot.
Chronica Naturae, Djakarta, Indonesia	Chron. Nat.
Ciencia e Investigacion, Buenos Aires	Cien. y Invest.
Circular Bulletin Michigan Agricultural Experiment Station, East Lansing	Circ. Bull. Mich. agric. Exp. Stat.
Circular California Agricultural Experiment Station, Berkeley	Circ. Calif. agric. Exp. Stat.
Circular California Agricultural Extension Service	Circ. Calif. agric. Ext. Serv.
Circular Connecticut Agricultural Experiment Station, New Haven	Circ. Conn. agric. Exp. Stat.
Circular Department of Agriculture, Jamaica	Circ. Dep. Agric. Jamaica
Circular Dirección de Frutas, Hortalizas y Flores, Buenos Aires, Argentina	Circ. Dir. Frut. B. Aires
Circular Division of Horticulture, Experimental Farms Service, Department of Agriculture, Ottawa, Canada	Circ. Div. Hort., exp. Fms Serv., Ottawa
Circular Estación Experimental Agrícola de Tucumán, Argentina	Circ. Estac. exp. agríc. Tucumán
Circular Estación Experimental Agronomica, Santiago de la Vegas, Cuba	Circ. Estac. exp. agron. Santiago de la Vegas
Circular Extensión Estación Experimental Agrícola en Tingo María, Peru	Circ. Ext. Estac. exp. agríc. Tingo María
Circular Georgia Experiment Station, Experiment	Circ. Ga Exp. Stat.
Circular Hawaii Agricultural Experiment Station, Honolulu	Circ. Hawaii agric. Exp. Stat.
Circular Idaho Agricultural Experiment Station, Moscow	Circ. Idaho agric. Exp. Stat.
Circular Illinois Agricultural Experiment Station, Urbana	Circ. Ill. agric. Exp. Stat.
Circular Illinois Agricultural Extension Service, Urbana	Circ. Ill. agric. Ext. Serv.
Circular Instituto Experimental de Agricultura y Zootecnia, E. Valle, Venezuela	Circ. Inst. exp. Agric. Zootec. E. Valle
Circular Kansas Agricultural Experiment Station, Manhattan	Circ. Kans. agric. Exp. Stat.
Circular Ministerio de Agricultura y Cría Venezuela	Circ. Minist. Agric. Venezuela
Circular Mississippi Agricultural Experiment Station, State College	Circ. Miss. agric. Exp. Stat.
Circular Missouri Agricultural Experiment Station, Columbia	Circ. Mo. agric. Exp. Stat.
Circular Nebraska Agricultural Experiment Station, Lincoln	Circ. Neb. agric. Exp. Stat.
Circular New Hampshire Agricultural Experiment Station, Durham	Circ. N.H. agric. Exp. Stat.
Circular New Jersey Agricultural Experiment Station, New Brunswick	Circ. N.J. agric. Exp. Stat.
Circular Oklahoma Agricultural Experiment Station, Stillwater	Circ. Okla. agric. Exp. Stat.
Circular Oregon Agricultural Experiment Station, Corvallis	Circ. Ore. agric. Exp. Stat.
Circular Pennsylvania Agricultural Extension Service, State College	Circ. Pa agric. Ext. Serv.
Circular Puerto Rico Federal Experiment Station, Mayaguez	Circ. P.R. fed. Exp. Stat. Mayaguez
Circular Rubber Research Institute, Malaya, Kuala Lumpur	Circ. Rubb. Res. Inst. Malaya
Circular Syrian Ministry of National Economy Extension Service [Arabic], Damascus	Circ. Syrian Minist. nat. Econ. Ext. Serv. Damascus
Circular Texas Agricultural Experiment Station, College Station	Circ. Tex. agric. Exp. Stat.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Circular United States Department of Agriculture, Washington, D.C.	Circ. U.S. Dep. Agric.
Circular Utah Agricultural Experiment Station, Logan	Circ. Utah agric. Exp. Stat.
Circular Wyoming Agricultural Experiment Station, Laramie	Circ. Wyo. agric. Exp. Stat.
Citrus Grower, Port Elizabeth, S. Africa	Citrus Gr
Citrus News, Melbourne, Australia	Citrus News
Collected Papers of the Canadian Committee on Food Preservation, Ottawa	Coll. Pap. Canad. Cttee Food Pres.
Collected Papers, Macaulay Institute for Soil Research, Aberdeen	Coll. Pap. Macaulay Inst. Soil Res.
Collection of Czechoslovak Chemical Communications, Prague	Coll. Czech. chem. Commun.
Collective Farming [Russian], <i>see</i> Kolhoznoe Proizvodstvo	
Colonial,* London Colonial Office	Colonial
Colonial Plant and Animal Products, London†	Colon. Plant Anim. Prod.
Commodity Reports F.A.O. (Fibers, etc.), Washington, D.C.	Commodity Rep. F.A.O.
Comptes Rendus de l'Académie Bulgare des Sciences, Sofia	C.R. Acad. bulg. Sci.
Comptes Rendus hebdomadaires des Séances de l'Académie d'Agriculture de France, Paris	C.R. Acad. Agric. Fr.
Contribución Estación Experimental Agronómica, Santiago de las Vegas, Cuba	Contr. Estac. exp. Agron. Santiago de las Vegas
Contributions from Boyce Thompson Institute, Menasha, Wis., and editorial office, Yonkers, N.Y.	Contr. Boyce Thompson Inst.
Contributions from the Brooklyn Botanic Garden, Brooklyn, N.Y.	Contr. Brooklyn bot. Gdn
Contribution Division of Horticulture, Experimental Farms Service, Ottawa	Contr. Div. Hort., exp. Fms Serv., Ottawa
Contributions of the General Agricultural Research Station, Bogor, Indonesia	Contr. gen. agric. Res. Stat. Bogor
Contribution Rhode Island Agricultural Experiment Station, Kingston	Contr. R.I. agric. Exp. Stat.
Countryman, Nicosia, Cyprus	Countryman, Nicosia
Courier Horticole, Bruxelles	Courr. hort.
Crown Colonist, London‡	Crown Colon.
Cultuur en Handel, Kortenbergh, Belgium	Cult. Hand.
Current Science, Bangalore	Curr. Sci.
Dansk Havebrug, København	Dansk Havebr.
Darwiniana, Buenos Aires	Darwiniana
Défense des Végétaux, Dielsdorf-Zürich	Déf. Vég.
Deutsche Baumschule, Aachen	Dtsch. Baumsch.
Distribution Maps of Plant Diseases, Kew	Distrib. Maps Plant Dis.
Divisional Report, Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Melbourne	Div. Rep., Div. Plant Ind., C.S.I.R.O.
Document Phytosanitaire, Série Pathologie, Institut National de la Recherche Agronomique, Paris	Doc. phytosan., Sér. Path., Inst. nat. Rech. agron.
Documentatieblad van de Afdeling Tropische Producten, Indisch Instituut te Amsterdam, Amsterdam	DocumBl. trop. Prod. Amst.
Doklady Akademii Nauk S.S.S.R. (Proceedings of the Academy of Sciences of the U.S.S.R.), Moscow [Russian]	Doklady Akad. Nauk S.S.S.R.
Doklady Vsesojuznoi Akademii Sel'skokozyajstvennykh Nauk Imeni V. I. Lenina (Proceedings of the Lenin Academy of Agricultural Sciences), Moscow [Russian]	Doklady vsesojuz. Akad. sel'sk. Nauk
Down to Earth, Midland, Michigan	Down to Earth

* Relevant issues only.

† Formerly Bulletin of the Imperial Institute.

‡ Now New Commonwealth.

LIST OF PUBLICATIONS

Publication

East African Agricultural Journal, Nairobi
 Economic Botany, New York
 Economic Series Ministry of Agriculture, London
 Empire Journal of Experimental Agriculture, Oxford
 Endeavour, London
 Entomologie et Phytopathologie Appliquées, Tehran
 Entomologist, London
 Entomologists' Monthly Magazine, London
 Erhvervsfrugtavlren, Odense, Denmark
 Essex Farmers' Journal, Chelmsford
 Evolution, Lancaster, Pa
 Experientia, Basle, Switzerland
 Experiment Station Bulletin Oklahoma Agricultural
 Experiment Station, Stillwater
 Experiment Station Circular, Oklahoma Agricultural
 Experiment Station, Stillwater
 Extension Bulletin Idaho Agricultural Experiment
 Station, Moscow
 Extension Bulletin Michigan Agricultural Experiment
 Station, East Lansing
 Extension Bulletin New Jersey Agricultural Experiment
 Station, New Brunswick
 Extension Bulletin Washington State Agricultural Extension
 Service, Pullman
 Extension Circular Department of Science and Agriculture,
 Jamaica
 Extensión Circular Estación Experimental de Agricultura,
 Tingo María
 Extension Circular Idaho Agricultural Experiment
 Station, Moscow
 Extension Circular North Carolina Agricultural Extension
 Service, Raleigh
 Extension Folder North Carolina Agricultural Experiment
 Station, Raleigh
 Extension Publication Louisiana Division of Agricultural
 Extension, Baton Rouge
 Extension Service Circular California Agricultural
 Experiment Station, Berkeley

 Farm Economist, Oxford
 Farmacognosia Anales del Instituto José Celestino Mutis,
 Madrid
 Farmer. Journal of the Jamaica Agricultural Society,
 Kingston, Jamaica
 Farmer and Stockbreeder, London
 Farmers' Bulletin Department of Agriculture, Canada,
 Ottawa
 Farmers' Bulletin United States Department of Agriculture,
 Washington
 Farmers' Leaflet National Institute of Agricultural
 Botany, Cambridge
 Farmers' Newsletter, Leeton, N.S.W.
 Farmers Weekly, London
 *Farming, Norwich
 Farming in South Africa, Pretoria
 Fertilizer, Feeding Stuffs, and Farm Supplies Journal,
 London
 Field Crop Abstracts, Aberystwyth
 Fixed Equipment of the Farm Leaflet, Ministry of Agriculture,
 London
 Florists Exchange, New York

Suggested abbreviation

E. Afr. agric. J.
 Econ. Bot.
 Econ. Ser. Minist. Agric. Lond.
 Emp. J. exp. Agric.
 Endeavour
 Ent. Phytopath. appl.
 Entomologist
 Ent. mon. Mag.
 Erhvervsfrugtavl.
 Essex Fmrs' J.
 Evolution
 Experientia
 Exp. Stat. Bull. Okla. agric. Exp. Stat.

 Exp. Stat. Circ. Okla. agric. Exp. Stat.

 Ext. Bull. Idaho agric. Exp. Stat.

 Ext. Bull. Mich. agric. Exp. Stat.

 Ext. Bull. N.J. agric. Exp. Stat.

 Ext. Bull. Wash. St. agric. Ext. Serv.

 Ext. Circ. Dep. Sci. Agric. Jamaica

 Ext. Circ. Estac. exp. Agric. Tingo María

 Ext. Circ. Idaho agric. Exp. Stat.

 Ext. Circ. N.C. agric. Ext. Serv.

 Ext. Folder N.C. agric. Exp. Stat.

 Ext. Publ. La Div. agric. Ext.

 Ext. Serv. Circ. Calif. agric. Exp. Stat.

 Fm Econ.
 Farmacognosia

 Fmr Jamaica

 Fmr & Stk-Breed.
 Fmrs' Bull. Dep. Agric. Canada

 Fmrs' Bull. U.S. Dep. Agric.

 Fmrs' Leaflet. nat. Inst. agric. Bot.

 Fmrs' Newslett.
 Fmrs' Wkly
 Fmg, Norwich
 Fmg S. Afr.
 Fert. Feed. St. J.

 Field Crop Abstr.
 Fixed Equip. Fm Leaflet. Minist. Agric.
 Lond.
 Flor. Exch.

* Now ceased publication.

LIST OF PUBLICATIONS

Publication

Flugblatt Biologische Bundesanstalt Braunschweig
 Flugblätter der Bundesanstalt für Pflanzenschutz, Vienna
 Food and Agriculture, Rome
 Food Investigation Leaflet, Department of Scientific and Industrial Research, London
 Food, London
 Food Manufacture, London
 Food Preservation Quarterly, Sydney
 Food Science Abstracts, London
 Foreign Agriculture, Washington, D.C.
 Foreign Agriculture Report, U.S. Department of Agriculture, Washington, D.C.
 Forestry, London
 Forestry Abstracts, Oxford
 Forskning og Forsøk i Landbruket, Oslo
 Fruit, Chelmsford
 Fruit Belge, Gembloux
 Fruit-Grower Year Book, London
 Fruit and Produce, Auckland
 Fruit Varieties and Horticultural Digest, Wooster, Ohio
 Fruit World and Market Grower, Melbourne and Sydney
 Fruit Year Book, R.H.S. London
 Fruitgrower, Fruiterer, Florist and Market Gardener, London
 Fruits d'Outre Mer, Paris
 Fruits et Primeurs de l'Afrique du Nord, Casablanca, Morocco (La Revue Française de l'Oranger)
 Fruitteelt, The Hague
 Frukt og Baer, Oslo
 Fruktodlaren, Stockholm
 Fukien Agricultural Journal, Foochow
 Gardeners' Chronicle and Agricultural Gazette, London
 Gardens Bulletin, Straits Settlements, Singapore
 Gärtnermeister, Zürich
 General Series Bulletin Department of Agriculture, Mauritius, Port Louis
 Grower, London
 Growers' Digest, Wishaw, Scotland
 Growers Notes and Station Record, Gulval, Cornwall
 Growth, Worcester, Mass.
 Hassadeh, Tel-Aviv [Hebrew]
 Hawaiian Planters' Record, Honolulu
 Helminthological Abstracts, St. Albans
 Herbage Abstracts, Aberystwyth
 Heredity, London
 Hilgardia, Berkeley, California
 Höfchen Briefe, Leverkusen, Germany
 Horticultural Circular Department of Agriculture, British Columbia, Victoria
 Humus, Milan
 Idia (Informativo de Investigaciones Agrícolas), Buenos Aires
 Illini Horticulture, Normal, Ill.
 Indian Coconut Journal, Ernakulam, S. India
 Indian Coffee Board Monthly Bulletin, Bangalore
 Indian Farming, Delhi
 Indian Journal of Agricultural Science, Delhi
 Indian Journal of Horticulture, New Delhi
 Industrial and Engineering Chemistry, Easton, Pa

Suggested abbreviation

Flugbl. biol. Bundesanst. Braunschweig
 Flugbl. Bundesanst. PflSchutz Wien
 Food & Agric.
 Food Invest. Leaff. D.S.I.R.
 Food
 Food Manuf.
 Food Pres. Quart.
 Food Sci. Abstr.
 Foreign Agric.
 Foreign Agric. Rep.
 Forestry
 For. Abstr.
 Forskn. Landbruk.
 Fruit
 Fruit belge
 Fruit-Grower Year Book
 Fruit & Prod.
 Fruit Var. hort. Dig.
 Fruit World, Melbourne
 Fruit Year Book
 Fruitgrower
 Fruits d'Outre Mer
 Fruits et Prim.
 Fruitteelt
 Frukt og Baer
 Fruktodlaren
 Fukien agric. J.
 Gdnrs' Chron.
 Gdns' Bull. Singapore
 Gärtnermeister
 Gen. Ser. Bull. Dep. Agric. Mauritius
 Grower
 Grs' Digest
 Grs' Notes Stat. Rec. Gulval
 Growth
 Hassadeh
 Hawaii. Plant. Rec.
 Helminth. Abstr.
 Herb. Abstr.
 Heredity
 Hilgardia
 Höfchen Briefe
 Hort. Circ. Dep. Agric. B.C.
 Humus
 Idia
 Ill. Hort.
 Indian Coconut J.
 Indian Coffee Bd mon. Bull.
 Indian Fmg
 Indian J. agric. Sci.
 Indian J. Hort.
 Industr. engng Chem.

LIST OF PUBLICATIONS

Publication

Information Bulletin, Inter-American Institute of Agricultural Sciences, Turrialba, Costa Rica
 Information Series, Department of Scientific and Industrial Research, Wellington, New Zealand
 Informativo de Investigaciones Agrícolas, Buenos Aires, *see* *Idia*
 Informe Ministerio de Agricultura e Industrias, Costa Rica, *see* Report Ministerio
 International Sugar Journal, London
 Iowa Farm Science, Ames, Iowa
 Iowa State College Journal of Science, Ames, Iowa
 Italia Agricola, Rome
 Izvestija Akademii Nauk S.S.S.R. Ser. Biol. [Russian]

Jaarboek "De Proeftuin" te Boskoop, Holland
 Jaarverslag Proefstation voor de Groenten- en Fruitteelt onder Glas te Naaldwijk, Holland
 Jaarverslag Proeftuin voor de Bloementeel te Aalsmeer, Holland
 Jaarverslag Proeftuin Zuid-Hollandsch Glasdistrict te Naaldwijk, Holland*
 Jahrbuch der Hochschule für Bodenkultur in Wien, Vienna
 Jahresbericht der Eidg. Versuchsanstalt f. Obst-, Wein-, u. Gartenbau in Wädenswil, Switzerland
 Jardins de France, Paris
 John Innes Leaflet, London
 Journal of Agricultural Science, Cambridge
 Journal of Agriculture of Western Australia, Perth
 Journal of the American Chemical Society, Easton, Pa
 Journal of American Society of Agronomy, *see* *Agronomy Journal*
 Journal of the American Statistical Association, Menasha, Wis.
 Journal of the Arnold Arboretum, Jamaica Plain, Mass.
 Journal of the Association of Official Agricultural Chemists, Washington, D.C.
 Journal of the Australian Institute of Agricultural Science, Sydney
 Journal of Biological Chemistry, Baltimore, Md
 Journal of the Chemical Society of London, London
 Journal of the Department of Agriculture, Éire, Dublin
 Journal of the Department of Agriculture of Puerto Rico, Rio Piedras
 Journal of the Department of Agriculture of South Australia, Adelaide
 Journal of the Department of Agriculture of Victoria, Australia, Melbourne
 Journal of Ecology, London
 Journal of Economic Entomology, Menasha, Wis.
 Journal of Experimental Biology, Cambridge
 Journal of Experimental Botany, Oxford
 Journal of General Biology [Russian], *see* *Žurnal Ošēbei Biologi*
 Journal of General Microbiology, Cambridge
 Journal of Genetics, London
 Journal of Heredity, Washington, D.C.
 Journal of the Horticultural Association of Japan, Tokyo
 Journal of Horticultural Science, London
 Journal of the Institute of Brewing, London

Suggested abbreviation

Inf. Bull. Turrialba
 Inf. Ser. D.S.I.R., N.Z.
 Int. Sugar J.
 Ia Fm Sci.
 Ia St. Coll. J. Sci.
 Ital. agric.
 Izv. Akad. Nauk S.S.S.R. Ser. biol.
 Jaarb. "De Proeftuin" Boskoop
 Jaarversl. Proefstat. Groent. Fruit. Glas
 Jaarversl. Proeft. Aalsmeer
 Jaarversl. Proeft. Z.H. Glasd.
 Jb. Hochsch. Bodenk. Wien
 Jber. Versuchsanst. Wädenswil
 Jardins Fr.
 John Innes Leaflet.
 J. agric. Sci.
 J. Agric. W. Aust.
 J. Amer. chem. Soc.
 J. Amer. statist. Ass.
 J. Arnold Arbor.
 J. Ass. off. agric. Chem. Wash.
 J. Aust. Inst. agric. Sci.
 J. biol. Chem.
 J. chem. Soc. Lond.
 J. Dep. Agric. Dublin
 J. Dep. Agric. Puerto Rico
 J. Dep. Agric. S. Aust.
 J. Dep. Agric. Vict.
 J. Ecol.
 J. econ. Ent.
 J. exp. Biol.
 J. exp. Bot.
 J. gen. Microbiol.
 J. Genet.
 J. Hered.
 J. hort. Ass. Japan
 J. hort. Sci.
 J. Inst. Brew.

* Now Jaarverslag Proefstation voor de Groenten- en Fruitteelt onder Glas.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Journal of the Institute of Corn and Agricultural Merchants Ltd., London	J. Inst. Corn agric. Merch.
Journal of the Jamaica Agricultural Society, <i>see</i> Farmer	
Journal of the National Institute of Agricultural Botany, Cambridge	J. nat. Inst. agric. Bot.
Journal of the Royal Agricultural Society of England, London	J. roy. agric. Soc.
Journal of the Royal Horticultural Society, London	J. roy. hort. Soc.
Journal of the Royal Statistical Society, London	J. roy. statist. Soc.
Journal of the Royal Swedish Academy of Agriculture, Stockholm (Kungl. Lantbruksakademiens Tidskrift)	J. roy. Swedish Acad. Agric.
Journal of the Rubber Research Institute of Malaya, Kuala Lumpur	J. Rubb. Res. Inst. Malaya
Journal of the Science of Food and Agriculture, London	J. Sci. Food Agric.
Journal of the Scientific Agricultural Society of Finland, <i>see</i> Maataloustieteellinen Aikakauskirja	
Journal of Scientific Instruments, London	J. sci. Instrum.
Journal of the Society of Chemical Industry, London	J. soc. chem. Ind. Lond.
Journal of the Soilless Culture Society, Birmingham	J. soilless Cult. Soc.
Journal of the Washington Academy of Sciences, Menasha, Wis.	J. Wash. Acad. Sci.
Kent Farmers' Journal, Maidstone	Kent Fmrs' J.
Kew Bulletin, London	Kew Bull.
Kolhoznoe Proizvodstvo (Collective Farming), Moscow [Russian]	Kolhoz. Proizv.
Kühn-Archiv, Berlin	Kühn-Arch.
Kungliga Lantbruksakademiens Tidskrift, Stockholm, <i>see</i> Journal of the Royal Swedish Academy of Agriculture	
Kungliga Lantbrukshögskolans Annaler, Uppsala, <i>see</i> Annals of the Royal Agricultural College of Sweden	
Landbouw, Bogor (Buitenzorg), Indonesia	Landbouw
Landbouwkundig Tijdschrift, Wageningen	Landbouwk. Tijdschr.
Landwirtschaftliches Jahrbuch der Schweiz, Bern	Landw. Jb. Schweiz
Leaflet Coconut Research Scheme Ceylon, Colombo	Leafl. Coconut Res. Sch. Ceylon
Leaflet Cyprus Department of Agriculture, Nicosia	Leafl. Cyprus Dep. Agric.
Leaflet Department of Agriculture, Canada, Division of Botany and Plant Pathology, Ottawa	Leafl. Dep. Agric. Canada, Div. Bot. Plant Path.
Leaflet Department of Agriculture for Scotland, Edinburgh	Leafl. Dep. Agric. Scot.
Leaflet Department of Agriculture, Western Australia	Leafl. Dep. Agric. W. Aust.
Leaflet Department of Scientific and Industrial Research, Forest Products Research Laboratory, Aylesbury, Bucks.	Leafl. D.S.I.R. For. Prod. Res. Lab.
Leaflet Extension Service Rutgers University, New Brunswick	Leafl. Ext. Serv. Rutgers Univ.
Leaflet Forestry Commission, London	Leafl. For. Comm. Lond.
Leaflet Indian Coffee Board Research Department, Bangalore	Leafl. Indian Coffee Bd Res. Dep.
Leaflet Ministry of Agriculture, London, Fixed Equipment of the Farm, <i>see under</i> Fixed Equipment . . .	
Leaflet New Jersey Agricultural Experiment Station, New Brunswick	Leafl. N.J. agric. Exp. Stat.
Leaflet Pennsylvania Agricultural Extension Service, State College	Leafl. Pa agric. Ext. Serv.
Lincolnshire and Surrounding Counties Agricultural Journal, Worcester	Lincoln. agric. J.
List of References to Boron Literature, published quarterly by American Potash Institute, Washington, D.C.	List Refs Boron Lit.
Lloydia, Cincinnati, Ohio	Lloydia

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Maataloustieteellinen Aikakauskirja, Helsinki (Journal of the Scientific Agricultural Society of Finland)	Maataloust. Aikakausk.
Malayan Agricultural Journal, Kuala Lumpur	Malay. agric. J.
Manufacturing Chemist, London	Manuf. Chem.
Manx Journal of Agriculture, Douglas, I.O.M.	Manx J. Agric.
Marcellia. Rivista Internazionale di Cecidologia, Naples	Marcellia
Market Growers' Journal, Louisville, Ky	Market Gr. J.
Marketing Leaflet Ministry of Agriculture, London	Market. Leaf. Minist. Agric. Lond.
Meddelande Lantbrukshögskolan Jordbruksförsöksanstalten, Stockholm and other places	Medd. Lantbruksh. Jordbruksf.
Meddelande från Statens Trädgårdsförsök, Malmö, Sweden	Medd. Trädgårdsförs. Malmö
Meddelande Växtskyddsanstalt, Stockholm	Medd. Växtskyddsanst. Stockh.
Mededelingen van het Algemeen Proefstation voor de Landbouw, Bogor (Buitenzorg)	Meded. alg. Proefst. Landb. Bogor
Mededelingen Directeur van den Tuinbouw, The Hague	Meded. Dir. Tuinb.
Mededeling Instituut voor Toegepast Biologisch Onderzoek in de Natuur, Hoenderloo	Meded. Inst. toegep. biolog. Onderz.
Mededeling Instituut voor Tuinbouwtechniek, Wageningen	Meded. Inst. TuinbTech.
Mededeling Instituut voor de Veredeling van Tuinbouwgewassen, Wageningen	Meded. Inst. Vered. Tuinbouwgew.
Mededelingen Laboratorium voor Bloembollenonderzoek te Lisse, Holland	Meded. Lab. Bloemboll. Lisse
Mededeelingen van de Landbouwhoogeschool te Wageningen	Meded. LandbHoogesch. Wageningen
Mededelingen van den Plantenziektenkundigen Dienst te Wageningen	Meded. PlZiekt. Dienst
Mededelingen van het Proefstation voor de Groenten- en Fruitteelt onder Glas, Naaldwijk, Holland	Meded. Proefst. Groent. Fruit. Glas
Mededeelingen van den Tuinbouwvoorlichtingsdienst, The Hague	Meded. TuinbVoorlicht. Dienst
Mededeelingen Vereniging "De Proeftuin" te Boskoop	Meded. "De Proeftuin" Boskoop
Melding frå Statens Forsøksgard i Grønsakdyrking Kvithamar i Stjørdal, Norway	Meld. Stat. Forsøksg. Grøns. Kvithamar
Melding frå Statens Forsøkstasjon i Grønsakdyrking, Oslo	Meld. Stat. Forsøkst. Grøns. Oslo
Melding fra Statens Plantevern (Statens Plantepatologiske Institutt), Oslo	Meld. Stat. Plantevern
Meldinger fra Norges Landbrukshøgskole, Oslo	Meld. norg. LandbrHøgsk.
Mémento Service de la Défense des Végétaux, Rabat, Morocco	Mém. Serv. Déf. Vég. Rabat
Memoir Cornell Agricultural Experiment Station, Ithaca, N.Y.	Mem. Cornell agric. Exp. Stat.
Memoirs of the Department of Agriculture, Salisbury, Southern Rhodesia	Mem. Dep. Agric. S. Rhod.
Memoirs of the Food Investigation Board, Department of Scientific and Industrial Research, London	Mem. Food Invest. Bd, Lond.
Memoir Imperial College of Tropical Agriculture, Trinidad	Mem. imp. Coll. trop. Agric. Trin.
Memoirs Research Division Ministry of Agriculture, Sudan, Khartoum	Mem. Res. Div. Minist. Agric. Sudan
Memoirs School of Agriculture, Cambridge	Mem. Sch. Agric. Camb.
Memorandum Indian Tea Association, Tocklai, Calcutta	Memor. Indian Tea Ass.
Memoria della Stazione Agraria Sperimentale di Bari	Mem. Staz. agrar. sper. Bari
Memoria de la Dirección de Frutas, Hortalizas y Flores, Secretaría de Industria y Comercio, Buenos Aires	Mem. Dir. Frut. Hort. B. Aires
Merkblatt des Instituts für Obstbau, Berlin	Merkbl. Inst. Obstb. Berlin
Meteorological Magazine, London	Met. Mag.
Metron. Rivista Internazionale di Statistica, Rome	Metron
Mimeographed Circular Oklahoma Agricultural Experiment Station, Stillwater	Mimeo. Circ. Okla agric. Exp. Stat.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Minnesota Horticulturist, Minneapolis	Minn. Hort.
Miscellaneous Publication Edinburgh and East of Scotland College of Agriculture, Edinburgh	Misc. Publ. Edinb. Coll. Agric.
Miscellaneous Publication Maine Agricultural Experiment Station, Orono	Misc. Publ. Me agric. Exp. Stat.
Miscellaneous Publication United States Department of Agriculture, Washington	Misc. Publ. U.S. Dep. Agric.
Mitteilungen aus der Biologischen Zentralanstalt für Land- und Forstwirtschaft, Berlin-Dahlem	Mitt. biol. Zentralanst. Berlin-Dahlem
Mitteilungen des Deutschen Wetterdienstes in der US-Zone, Bad Kissingen	Mitt. dtsh. Wetterdienst. U.S. Zone
Mitteilungen für die Mitglieder des Obstbauversuchsrings des Alten Landes, Jork	Mitt. ObstbVersuchsrings Jork
Monograph Tea Research Institute of Ceylon, Talawakelle	Monogr. Tea Res. Inst. Ceylon
Monthly Bulletin of the Coffee Board of Kenya, Nairobi	Mon. Bull. Coffee Bd Kenya
Monthly Bulletin Indian Coffee Board, Bangalore, <i>see</i> Indian Coffee Board Monthly Bulletin	
Monthly List of Official Colonial Publications, London	Mon. List. off. colon. Publ.
Monthly Weather Report of the Meteorological Office, London	Mon. Weather Rep. Lond.
Nachrichtenblatt der Biologischen Zentralanstalt Braunschweig*	NachrBl. biolog. Zentralanst. Braunschweig
Nachrichtenblatt für den Deutschen Pflanzenschutzdienst, Berlin	NachrBl. dtsh. PflSchDienst, Berlin
Nachrichtenblatt des Deutschen Pflanzenschutzdienstes, Braunschweig	NachrBl. dtsh. PflSchDienst., Braunschweig
N.A.A.S. [National Agricultural Advisory Service] Quarterly Review, London	N.A.A.S. Quart. Rev.
National Cactus and Succulent Journal, Bradford	Nat. Cactus Succ. J.
National Horticultural Magazine, Washington, D.C.	Nat. hort. Mag.
National Research Council Review, Ottawa	N.R.C. Rev. Ottawa
Nature, London	Nature
Nature [Russian], <i>see</i> Priroda	
New Commonwealth, London (formerly Crown Colonist)	New Commonw.
New Phytologist, Cambridge	New Phytol.
New York State Flower Growers Inc. Bulletin	Bull. N.Y. St. Flower Gr.
New Zealand Journal of Agriculture, Wellington, N.Z.	N.Z. J. Agric.
New Zealand Journal of Science and Technology, Wellington, N.Z.	N.Z. J. Sci. Tech.
N.F.U. [National Farmers' Union] Annual, London	N.F.U. Annual, Lond.
Norsk Hagetidend, Oslo	Norsk Hagetid.
Northern Gardener, Manchester	North. Gdnr
Northwest Science, Pullman, Washington	Northwest Sci.
Notas Agronomicas. Estación Agrícola Experimental de Palmira, Colombia	Not. agron. Palmira
Notiziario sulle Malattie delle Pianta, Milan	Not. Mal. Pianta
Nuovo Giornale Botanico Italiano, Florence	Nuovo G. bot. ital.
Nyasaland Agricultural Quarterly Journal, Blantyre	Nyasaland agric. quart. J.
Ochrana Rostlin, Prague	Ochr. Rost.
Oléagineux, Marseilles	Oléagineux
Orchard and Garden [Russian], <i>see</i> Sad i Ogorod	
Orchardist of New Zealand, Wellington, N.Z.	Orchard. N.Z.
Organic Reactions, New York	Organic Reactions
Palestine Journal of Botany, Jerusalem series, Jerusalem	Palest. J. Bot. (J)
Palestine Journal of Botany, Rehovot series, Rehovot	Palest. J. Bot. (R)
Pamiętnik Zakładu Badania Drzew i Lasu w Korniku, Kornik†	Pam. Zakł. Kornik.

* From January 1950 named Nachrichtenblatt des Deutschen Pflanzenschutzdienstes, Braunschweig.

† Not received since 1947.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Pamphlet Vermont Agricultural Experiment Station, Burlington	Pamph. Vt agric. Exp. Stat.
Paper Citrus Experiment Station, Riverside, California	Pap. Calif. Citrus Exp. Stat.
Paper United Planters' Association of Southern India	Pap. United Plant. Ass. S. India
Parasitica, Gembloux	Parasitica
Pflanzenschutz Berichte, Vienna	PflSch. Ber. Wien
Pflanzenschutz und Schädlingsbekämpfung, Dielsdorf-Zürich	PflSch. SchädlBekämpf.
Philippine Agriculturist, Los Banos, P.I.	Philipp. Agric.
Philippine Journal of Agriculture, Manila, P.I.	Philipp. J. Agric.
Philippine Journal of Science, Manila, P.I.	Philipp. J. Sci.
Philosophical Transactions of the Royal Society of London, Series B, London	Philos. Trans. Ser. B
Physiologia Plantarum, Copenhagen	Physiol. Plant.
Phytopathologische Zeitschrift, Berlin	Phytopath. Z.
Phytopathology, Lancaster, Pa.	Phytopathology
Picture Sheet U.S. Department of Agriculture, Bureau of Entomology and Plant Quarantine, Washington, D.C.	Pict. Sheet U.S. Dep. Agric. Bur. Ent. Plant Quar.
Plant Pathology Paper, Department of Agriculture, Southern Rhodesia, Salisbury	Plant Path. Pap. Dep. Agric. S. Rhod.
Plant Protection Overseas Review, London	Plant Prot. Overs. Rev.
Plant and Soil, The Hague	Plant and Soil
Plant Breeding Abstracts, Cambridge	Plant Breed. Abstr.
Plant Disease Reporter (and Supplements), Beltsville, Md	Plant Dis. Reprtr
Plant Physiology, Lancaster, Pa	Plant Physiol.
Planta. Archiv für Wissenschaftliche Botanik, Berlin	Planta
Planters' Chronicle, Nilgiris, India	Plant. Chron.
Planters' Journal and Agriculturist, Calcutta	Plant. J. Calcutta
Planting Manual Rubber Research Institute of Malaya, Kuala Lumpur	Plant. Man. Rubb. Res. Inst. Malaya
Pomologie Française, Villefranche sur Saône	Pomol. franç.
Pomme de Terre Française, Lille	Pomme de Terre franç.
Poona Agricultural College Magazine, Poona	Poona agric. Coll. Mag.
Portugaliae Acta Biologica, Series A, Lisbon	Portugal. Acta biol.
Press Bulletin Florida Agricultural Experimental Station, Gainesville	Press Bull. Fla agric. Exp. Stat.
Press Bulletin New Mexico Agricultural Experiment Station, State College	Press Bull. N. Mex. agric. Exp. Stat.
Priroda (Nature) Leningrad [Russian]	Priroda
Proceedings of the Academy of Sciences of the U.S.S.R. [Russian], see Doklady Akad. Nauk S.S.S.R.	
Proceedings of the Agricultural Society of Trinidad and Tobago, Port of Spain	Proc. agric. Soc. Trin. Tob.
Proceedings of the American Pomological Society, Washington	Proc. Amer. pomol. Soc.
Proceedings of the American Society for Horticultural Science, East Lansing, Mich.	Proc. Amer. Soc. hort. Sci.
Proceedings California Weed Conference	Proc. Calif. Weed Conf.
Proceedings Conference Queensland Society of Sugar Cane Technologists, Brisbane	Proc. Qd Soc. Sugar Cane Tech.
Proceedings of the Florida State Horticultural Society, Deland, Fla	Proc. Fla St. hort. Soc.
Proceedings of the Indian Academy of Sciences, Section B, Bangalore	Proc. Indian Acad. Sci. Sect. B
Proceedings of the Indian Tea Association, Annual Conference, Tocklai Experimental Station, Tocklai	Proc. Indian Tea Ass. Tocklai annu. Conf.
Proceedings Koninklijke Nederlandsche Akademie van Wetenschappen, Amsterdam	Proc. kon. ned. Akad. Wetensch.
Proceedings of the Lenin Academy of Agricultural Sciences of U.S.S.R. [Russian], see Doklady Vsesojuznoi . . .	
Proceedings of the Meeting of the B.W.I. Sugar Technologists, Barbados	Proc. Mtg B.W.I. Sugar Tech.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Proceedings of the National Shade Tree Conference, held at various places, U.S.A.	Proc. nat. Shade Tree Conf.
Proceedings of the New York State Horticultural Society, New York	Proc. N.Y. St. hort. Soc.
Proceedings North Central Weed Control Conference (U.S.A.)	Proc. N. centr. Weed Control Conf.
Proceedings North Eastern States Weed Control Conference (U.S.A.)	Proc. N.E. States Weed Control Conf.
Proceedings of the Northern Nut Growers Association, New York	Proc. north. Nut Grs' Ass.
Proceedings of the Oklahoma Academy of Sciences, Normal, Oklahoma	Proc. Okla. Acad. Sci.
Proceedings of the Pennsylvania State Horticultural Association, State College	Proc. Pa St. hort. Ass.
Proceedings of the Queensland Society of Sugar Cane Technologists, Mackay, Queensland	Proc. Qd Soc. Sugar Cane Tech.
Proceedings of the Royal Institution of Great Britain, London	Proc. roy. Instn G.B.
Proceedings of the Royal Society, Series B, London	Proc. roy. Soc.
Proceedings of the Soil Science Society of America, Morgantown, West Virginia	Proc. Soil Sci. Soc. Amer.
Proceedings of the Southern Weed Conference	Proc. south. Weed Conf.
Proceedings Vermont State Horticultural Society, Rutland and other places	Proc. Vt St. hort. Soc.
Proceedings Washington State Horticultural Association, Washington State	Proc. Wash. St. hort. Ass.
Proceedings Western Weed Control Conference (U.S.A.)	Proc. west. Weed Control Conf.
Proceedings of the Zoological Society of Bengal, Calcutta	Proc. zool. Soc. Bengal
Processed Publications Department of Agriculture, Canada Division of Entomology, Ottawa	Processed Publ. Canada Dep. Agric. Div. Ent.
Professional Paper Boyce Thompson Institute, Yonkers	Prof. Pap. Boyce Thompson Inst.
Progres Agricole et Viticole, Montpellier	Progr. agric. vitic.
Progress in Modern Biology [Russian], <i>see</i> Uspehi Sovremennoi Biologii	
Progress Report Colonial Insecticide Research Laboratory, Porton	Progr. Rep. colon. Insecticide Res. Lab.
Progress Report Dominion Experimental Station, Beaverlodge, Alberta	Progr. Rep. Domin. exp. Stat. Beaverlodge
Progress Report Dominion Experimental Station, Harrow, Ontario	Progr. Rep. Domin. exp. Stat. Harrow
Progress Report of the Dominion Experimental Farm, Indian Head, Sask.	Progr. Rep. Domin. exp. Fm Indian Head
Progress Report Dominion Experimental Station, Kentville, N.S.	Progr. Rep. Domin. exp. Stat. Kentville
Progress Report Dominion Reclamation Station, Melita, Manitoba	Progr. Rep. Domin. Reclam. Stat. Melita
Progress Report Dominion Experimental Station, Progress Report Dominion Agricultural Experimental Station, Saanichton, B.C.	Progr. Rep. Domin. exp. Stat. Melfort Progr. Rep. Domin. agric. exp. Stat. Saanichton
Progress Report Institute of Plant Industry, Indore, <i>see under</i> Annual Report	
Progress Report Pennsylvania Agricultural Experiment Station, State College	Progr. Rep. Pa agric. Exp. Stat.
Progress Report Wyoming Agricultural Experiment Station, Laramie	Progr. Rep. Wyo. agric. Exp. Stat.
Przegląd Doświadczalnictwa rolniczego, Poznań*	Przegląd Doświad. rolnicz.
Publicazione, Publicatie, Publications, etc. Those out of series are shown in brackets, thus (Publ.):	
(Publication) American Potash Institute, Washington, D.C.	(Publ.) Amer. Potash Inst.

* Not received recently.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
(Publication) Bureau of Agricultural Economics, United States Department of Agriculture, Wash- ington	(Publ.) Bur. agric. Econ. U.S.D.A.
(Publication) Canada Department of Agriculture, Ottawa	Publ. Canada Dep. Agric.
(Publication) Cawthron Institute, Nelson, N.Z.	(Publ.) Cawthron Inst.
(Publication) Commonwealth Economic Committee, London	Publ. Commonw. econ. Cttee
(Publication) Council for Scientific and Industrial Research, Australia	(Publ.) Coun. sci. industr. Res. Aust.
(Publication) Department of Agriculture for Scotland, Edinburgh	(Publ.) Dep. Agric. Scot.
(Publication) Direction de l'Agriculture et d'Elevage, Ministère des Colonies, Brussels	(Publ.) Dir. Agric. Minist. Colon. Brussels
(Publication) East Malling Research Station, Maidstone	(Publ.) E. Malling Res. Stat.
(Publication) Edinburgh and East of Scotland College of Agriculture, Edinburgh	(Publ.) Edinb. Coll. Agric.
(Publication) Estación Experimental de Aula Dei, Zaragoza, Spain	(Publ.) Estac. exp. Aula Dei, Zaragoza
(Publication) Experimental Farms Service, Department of Agriculture, Ottawa, Canada	Publ. exp. Fms Serv., Dep. Agric., Canada
(Publication) de la Fédération Nationale des Produc- teurs de Plants de Pommes de Terre	(Publ.) Féd. nat. Prod. Plants Pommes de Terre
(Publication) Food and Agriculture Organization, Washington, D.C.	(Publ.) F.A.O. Washington
(Publication) Fruit Series Department of Agriculture, Assam, Shillong	(Publ.) Fruit Ser. Dep. Agric. Assam
(Publication) Government Committee for the Com- pilation of the List of Varieties of Field Crops, Wageningen	(Publ.) Govt Cttee Compil. List Var. Field Crops, Wageningen
(Publication) Manitoba Department of Agriculture and Immigration, Winnipeg, Canada	Publ. Manitoba Dep. Agric.
(Publication) Meteorological Office, Air Ministry, London	(Publ.) met. Off. Air Minist. Lond.
(Publication) Ministerie van Landbouw, Visserijen Voedselvoorziening, The Hague	(Publ.) Minist. Landb., The Hague
(Publication) Ministerio de Agricultura, Guatemala	(Publ.) Minist. Agric. Guatemala
(Publication) Ministerio de Agricultura, Madrid	(Publ.) Minist. Agric. Madrid
(Publication) Ministerio da Agricultura, Serviço de Informação Agrícola, Rio de Janeiro	(Publ.) Minist. Agric. Rio de J.
(Publication) Ministerio de Agricultura de la Nación, Buenos Aires	(Publ.) Minist. Agric. Nac. B. Aires
(Publication) Ministerio de Ganaderia y Agricultura, Montevideo, Uruguay	Publ. Minist. Ganad. Agric. Montevideo
(Publication) Miscelanea Ministerio de Agricultura y Ganaderia, Buenos Aires, Argentina	Publ. misc. Minist. Agric. B. Aires
(Publication) Mushroom Growers Association, Yaxley, Peterborough	(Publ.) Mushroom Gr. Ass.
(Publications) N.A.A.S. [National Agricultural Advis- ory Service], London and elsewhere	(Publ.) nat. agric. adv. Serv. or N.A.A.S.
(Publication) National Institute of Agricultural Botany, Cambridge	(Publ.) nat. Inst. agric. Bot. Cambridge
(Publication) National Institute of Agricultural Engin- eering, Silsoe	(Publ.) nat. Inst. agric. Engng or N.I.A.E.
(Publication) Nederlandsche Algemeene Keurings- dienst voor Boomkweekerijgewassen, The Hague	(Publ.) N.A.K.B. Nederland
(Publication) Nederlandse Fruittelers Organisatie Publicatie Proeftuin Zuid-Hollands Glasdistrict, Naald- wijk	(Publ.) Nederl. Fruit Org. or N.F.O. Publ. Proeft. Z.H. Glasd.
(Publication) Royal Horticultural Society, London	(Publ.) roy. hort. Soc.
(Publication) Scientific Cooperation Office, Middle East, Cairo	(Publ.) sci. Coop. Off. Mid. East

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Publication Série Scientifique de l'Institut National pour l'Étude Agronomique du Congo Belge, Brussels	Publ. Sér. sci. Inst. nat. Ét. agron. Congo belge <i>or</i> Publ. Sér. sci. I.N.É.A.C.
Publication Série Technique de l'Institut National pour l'Étude Agronomique du Congo Belge, Brussels	Publ. Sér. tech. Inst. nat. Ét. agron. Congo belge <i>or</i> Publ. Sér. sci. I.N.É.A.C.
(Publication) Station Fédérale d'Essais Viticoles et Arboricoles, Lausanne	(Publ.) Stat. féd. Ess. vitic. arboric. Lausanne
Publicación Técnica Instituto Interamericano de Ciencias Agrícolas Turrialba, Costa Rica	Publ. téc. Inst. interamer. Cien. agric. Turrialba
(Publication) Trelawney Tobacco Research Station, Southern Rhodesia	(Publ.) Trelawney Tobacco Res. Stat.
(Publication) United States Department of Agriculture, Agricultural Research Administration, Bureau of Agricultural and Industrial Chemistry	(Publ.) U.S. Dep. Agric. AIC-
(Publication) United States Department of Agriculture, Agricultural Research Administration, Bureau of Entomology and Plant Quarantine	(Publ.) U.S. Dep. Agric., Bur. Ent. Plant Quar. <i>or</i> (Publ.) U.S. Dep. Agric. E- <i>or</i> ET-
(Publication) Western Washington Experiment Station, Puyallup	(Publ.) west. Wash. St. Exp. Stat.
Punjab Fruit Journal, Lyallpur	Punjab Fruit J.
Pure Culture Study of Bacteria, Geneva, N.Y.	Pure Cult. Stud. Bact.
Pyrethrum Post, London	Pyreth. Post
Quarterly Bulletin Michigan Agricultural Experiment Station, East Lansing, Mich.	Quart. Bull. Mich. agric. Exp. Stat.
Quarterly Circular, Ceylon Rubber Research Scheme, Colombo	Quart. Circ. Ceylon Rubb. Res. Scheme
Quarterly Journal of Microscopical Science, Oxford	Quart. J. microscop. Sci.
Quarterly Journal of the Royal Meteorological Society, London	Quart. J. roy. met. Soc.
Quarterly Report West African Cacao Research Institute, Gold Coast, Tafo	Quart. Rep. W. Afr. Cacao Res. Inst.
Quarterly Review of Biology, Baltimore, Md	Quart. Rev. Biol.
Quarterly Reviews, The Chemical Society, London	Quart. Rev. chem. Soc.
Queensland Agricultural Journal, Brisbane	Qd agric. J.
Queensland Journal of Agricultural Science, Brisbane	Qd J. agric. Sci.
Rádce Zemědělce, published by Brázda, Prague	Rádce Zemědělce
Rapport Annuel de l'Institut pour l'Encouragement de la Recherche Scientifique dans l'Industrie et l'Agriculture, Belgium	Rapp. annu. I.R.S.I.A.
Rapport Annuel Institut des Fruits et Agrumes Coloniaux, Paris	Rapp. annu. Inst. Fruits Agrumes colon. <i>or</i> Rapp. annu. I.F.A.C.
Rapport Annuel Institut National pour l'Étude Agronomique du Congo Belge, Leopoldville	Rapp. annu. Inst. nat. Ét. agron. Congo belge <i>or</i> Rapp. annu. I.N.É.A.C.
Rapports Annuels de la Station Fédérale d'Essais Viticoles et Arboricoles à Lausanne et Domaine de Pully [contained in Landwirtschaftliches Jahrbuch der Schweiz]	Rapp. annu. Stat. féd. Ess. vitic. arboric. Lausanne
Rapport Général Centre de Recherches de la Ligue Pomologique pour la Défense du Fruit Belge, Huy, Belgium	Rapp. gén. Centre Rech. Ligue pomol. Déf. Fruit belge
Rapport de la Station Provinciale de Recherches Scientifiques de Viticulture, La Hulpe, Belgium	Rapp. Stat. Rech. sci. Vitic. La Hulpe
Report of the Administrator of Agricultural Research, U.S. Department of Agriculture, Washington, D.C.	Rep. Administ. agric. Res. U.S. Dep. Agric.
Report on the Agricultural Experiment Stations, U.S.A.	Rep. agric. Exp. Stats U.S.A.
Report Annual Date Growers' Institute, Coachella	Rep. annu. Date Grs' Inst.
Reports of Cocoa Conferences, London and elsewhere	Rep. Cocoa Conf.
Report on Coffee Entomology and Pathology, Entebbe, Uganda	Rep. Coffee Ent. Path. Entebbe

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Report of the College of Agriculture, Vermont, Burlington	Rep. Vt Coll. agric.
Report of the Director-General, Food and Agriculture Organization of the United Nations, Washington, D.C.	Rep. Dir.-Gen. F.A.O.
Report East African Agricultural Research Institute, Amani, <i>see</i> Annual Report East African Agriculture and Forestry Research Organization	
Report on Forest Research, London	Rep. For. Res.
Report Lethbridge Dominion Agricultural Experimental Station, Alta	Rep. Lethbridge Domin. agric. exp. Stat.
Report Ministerio de Agricultura e Industrias, Costa Rica	Rep. Minist. Agric. Costa Rica
Report National Institute of Agricultural Engineering, Silsoe, Bedfordshire, and Mid-Calder, Midlothian	Rep. nat. Inst. agric. Engng
Report of Proceedings of the Annual Meeting of the Western Canadian Society of Horticulture, held at various places	Rep. Proc. west. Canad. Soc. Hort.
Report of the Scottish Society for Research in Plant Breeding, Corstorphine, Edinburgh	Rep. Scot. Soc. Res. Plant Breed.
Report of the Secretary of Agriculture, U.S.A., Wash-	Rep. Secy Agric. U.S.
Report of the Senior Agricultural Officer, Hong Kong	Rep. senr. agric. Off. Hong Kong
Report Series Agricultural Research Council, London	Rep. Ser. agric. Res. Coun. Lond.
Report Soil Survey Research Board, Agricultural Research Council, London	Rep. Soil. Surv. Res. Bd, A.R.C., Lond.
Report on the Trial of New Varieties of Hops, East Malling, <i>see under</i> (Publication) East Malling Research Station	
Reports on the work of the Agricultural Stations in the Madras Presidency, <i>see under</i> Annual Report Madras	
Report of Work of the Ceylon Rubber Research Board, Colombo	Rep. Work Rubb. Res. Bd, Ceylon
Reprint Waite Agricultural Research Institute, Adelaide Research, London	Repr. Waite agric. Res. Inst. Research, Lond.
Research Achievement Sheets United States Department of Agriculture, Washington, D.C.	Res. Achiev. Sheet U.S. Dep. Agric.
Research Bulletin Department of Plant Pathology West of Scotland Agricultural College, Auchincruive, Ayr	Res. Bull. Dep. Plant Path. W. Scot. agric. Coll.
Research Bulletin Iowa Agricultural Experiment Station, Ames	Res. Bull. Ia agric. Exp. Stat.
Research Bulletin Missouri Agricultural Experiment Station, Columbia	Res. Bull. Mo. agric. Exp. Stat.
Research Bulletin Nebraska Agricultural Experiment Station, Lincoln	Res. Bull. Neb. agric. Exp. Stat.
Research Bulletin Wisconsin Agricultural Experiment Station, Madison	Res. Bull. Wis. agric. Exp. Stat.
Research in Norwegian Agriculture, <i>see</i> Forskning og Forsøk i Landbruket	
Research Report University of Western Australia, Geographical Laboratory, Nedlands, W. Australia	Res. Rep. Univ. W. Aust. geog. Lab.
Research Studies of the State College of Washington, Pullman, Washington	Res. Stud. Wash. St. Coll. Pullman
Review of Applied Entomology, A. Agricultural, London	Rev. appl. Ent.
Review of Applied Mycology, Kew	Rev. appl. Mycol.
Review National Research Council, Canada, Ottawa, <i>see</i> National Research Council Review	
Revista de Agricultura, Cochabamba, Bolivia	Rev. Agric. Cochabamba
Revista de Agricultura, Piracicaba, São Paulo	Rev. Agric. Piracicaba
Revista Agronómica, Publicação da Sociedade de Ciências Agronómicas de Portugal, Lisbon	Rev. agron. Lisboa
Revista Argentina de Agronomía, Buenos Aires	Rev. argent. Agron. B. Aires
Revista de la Asociacion de Ingenieros Agronomos, Montevideo	Rev. Asoc. Ingen. agron. Montevideo
Revista Ceres, Minas Gerais, Brazil	Rev. Ceres

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Revista de la Facultad de Agronomía y Veterinaria, Buenos Aires	Rev. Agron. B. Aires
Revista Facultad Nacional de Agronomía, Colombia	Rev. Fac. nac. Agron. Colombia
Revista Industrial y Agrícola de Tucumán, Argentina	Rev. industr. agric. Tucumán
Revista del Instituto de Defensa da Café de Costa Rica, San José	Rev. Inst. Def. Café San José
Revista de Investigaciones Agrícolas, Buenos Aires	Rev. Invest. agric. B. Aires
Revue Agricole de l'Île Maurice, Mauritius	Rev. agric. Maurice
Revue Agricole de l'Île de Réunion, Saint-Denis	Rev. agric. Réunion
Revue de l'Agriculture, Bruxelles	Rev. Agric. Brux.
Revue Française de l'Oranger, <i>see</i> Fruits et Primeurs	
Revue Générale du Caoutchouc, Paris	Rev. gén. Caoutch.
Revue Horticole, Paris	Rev. hort. Paris
Revue Horticole de l'Algérie, Algiers	Rev. hort. Algér.
Revue Horticole Suisse, Geneva	Rev. hort. suisse
Revue des Instituts de Recherches Scientifiques près les Ministères de l'Agriculture et des Forêts, Sofia [Bulgarian and Russian]	Rev. Inst. Rech. sci. Sofia
Revue Internationale de Botanique Appliquée et d'Agriculture Tropicale, Paris	Rev. int. Bot. appl.
Revue d'Oka, Agronomie, Médecine, Vétérinaire, La Trappe, Quebec	Rev. d'Oka
Revue Romande d'Agriculture, de Viticulture, et d'Arboriculture, Lausanne	Rev. romande Agric. Vitic.
Rhodesia Agricultural Journal, Salisbury	Rhod. agric. J.
Rivista di Agricoltura Subtropicale e Tropicale, Florence	Riv. Agric. sub trop.
Rivista di Frutticoltura, Ravenna	Riv. Fruttic.
Rivista della Ortoflorofrutticoltura Italiana, Florence	Riv. Ortoflorofruttic. ital.
Rubber Developments, London	Rubb. Dev.
Sad i Ogorod (Orchard and garden), Moscow [Russian]	Sad i Ogorod
Sborník Československé Akademie Zěmědělské, Prague, <i>see</i> Annals of the Czechoslovak Academy of Agriculture	
Sborník Vysoké Školy Zemědělské v Brně, <i>see</i> Acta Universitatis Agriculturae et Silviculturae, Brno, Czechoslovakia	
S. C. Purdue Agricultural Experiment Station, Lafayette, Indiana	S. C. Purdue agric. Exp. Stat.
Schweizerische Zeitschrift für Obst- und Weinbau, Wädenswil	Schweiz. Z. Obst- u. Weinb.
Science, New York	Science
Science Bulletin Department of Agriculture, New South Wales	Sci. Bull. Dep. Agric. N.S.W.
Science Bulletin of the Department of Agriculture, Union of South Africa, Pretoria	Sci. Bull. Dep. Agric. S. Afr.
Science Bulletin Western Province Fruit Research Station, Stellenbosch, South Africa	Sci. Bull. W. Prov. Fruit Res. Stat.
Science Progress, London	Sci. Progr.
Science Series Bulletin Department of Agriculture, Mauritius, Port Louis	Sci. Ser. Bull. Dep. Agric. Mauritius
Scientific Agriculture, Ottawa	Sci. Agric.
Scientific Contribution New Hampshire Agricultural Experiment Station	Sci. Contr. N.H. agric. Exp. Stat.
Scientific Horticulture, Sutton Bonington, England	Sci. Hort.
Scientific Paper West Virginia Agricultural Experiment Station, Morgantown	Sci. Pap. W. Va agric. Exp. Stat.
Scientific Proceedings of the Royal Dublin Society, Dublin	Sci. Proc. roy. Dublin Soc.
Scientific Series Malaya Department of Agriculture, Kuala Lumpur	Sci. Ser. Malaya Dep. Agric.
Scottish Agriculture, Edinburgh	Scot. Agric.
Seed Growers Leaflets, N.I.A.B. Cambridge	Seed Gr. Leafl.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Seed World, Chicago	Seed World
Série Scientifique, Institut National de l'Étude Agronomique du Congo Belge, Brussels	Sér. sci. Inst. nat. Ét. agron. Congo belge, <i>or</i> Sér. sci. I.N.É.A.C.
Série Technique, Institut National de l'Étude Agronomique du Congo Belge, Brussels	Sér. tech. Inst. nat. Ét. agron. Congo belge, <i>or</i> Sér. tech. I.N.É.A.C.
Service Circular Missouri Agricultural Experiment Station, Columbia	Serv. Circ. Mo. agric. Exp. Stat.
Service and Regulatory Announcements, U.S. Department of Agriculture, Production and Marketing Administration	Serv. regul. Announcement, U.S. Dep. Agric.
Socialist Agriculture [Russian], <i>see</i> Socialističeskoe . . .	
Socialističeskoe Seljskoe Hozjaĭstvo (Socialist Agriculture), Moscow [Russian]	Social. seljsk. Hoz.
Soil Science, New Brunswick, N.J.	Soil Sci.
Soils and Fertilizers, Rothamsted	Soils & Ferts
South African Journal of Science, Johannesburg	S. Afr. J. Sci.
South African Sugar Journal, Durban	S. Afr. Sugar J.
Special Bulletin Michigan Agricultural Experiment Station, East Lansing	Spec. Bull. Mich. agric. Exp. Stat.
Special Report Utah Agricultural Experiment Station, Logan	Spec. Rep. Utah agric. Exp. Stat.
State Horticultural Association of Pennsylvania News, <i>see</i> Proceedings State . . .	
Station Bulletin Oregon Agricultural Experiment Station, Corvallis	Stat. Bull. Ore. agric. Exp. Stat.
Suelo Tico, San José, Costa Rica	Suelo Tico
Sugar, New York	Sugar, N. York
Sugar Bulletin Department of Agriculture, British Guiana, Georgetown	Sugar Bull. Dep. Agric. Brit. Guiana
Sugar Journal, New Orleans, La	Sugar J.
Sugestiones Oportunas para el Agricultor de Rio Negro, Cinco Saltos, <i>see</i> Boletín de la Estación Experimental Cinco Saltos	
Suomalaisen Tiedeakatemian Toimituksia (Annales Academiæ Scientiarum Fennicæ), Ser. A, IV, Biologica. Helsinki	Suom. Tiedeakat. Toim. Biol.
Suomalaisen Tiedeakatemian Toimituksia (Annales Academiæ Scientiarum Fennicæ), Ser. A, II, Chemica. Helsinki	Suom. Tiedeakat. Toim. Chem.
Suomen Hyönteistieteellinen Aikakauskirja [Annales Entomologici Fennici], Helsinki	Suom. Hyönteist. Aikakausk.
Svensk Geografisk Årsbok, Lund	Svensk geogr. Årsb.
Sveriges Pomologiska Förenings Årsskrift, Stockholm	Sver. pomol. Fören. Årsskr.
Tabacco, Rome	Tabacco
Tasmanian Journal of Agriculture, Hobart	Tasm. J. Agric.
Tätigkeitsbericht der Gärtnerischen Versuchsanstalt zu Friesdorf/Bad Godesberg	TätigskBer. gärtl. Versuchsanst. Friesdorf
Tea Protection Series Indian Tea Association, Scientific Department, Tocklai	Tea Prot. Ser. Indian Tea Ass. sci. Dep.
Tea Quarterly, Journal of the Tea Research Institute of Ceylon, Talawakelle	Tea Quart.
Tea Times, London	Tea Times
Technical Bulletin Arizona Agricultural Experiment Station, Tucson	Tech. Bull. Ariz. agric. Exp. Stat.
Technical Bulletin Colorado Agricultural Experiment Station, Fort Collins	Tech. Bull. Colo. agric. Exp. Stat.
Technical Bulletin Department of Agriculture Canada, Ottawa	Tech. Bull. Dep. Agric. Canada
Technical Bulletin Hawaii Agricultural Experiment Station, Honolulu	Tech. Bull. Hawaii agric. Exp. Stat.
Technical Bulletin Michigan Agricultural Experiment Station, East Lansing	Tech. Bull. Mich. agric. Exp. Stat.

LIST OF PUBLICATIONS

<i>Publication</i>	<i>Suggested abbreviation</i>
Technical Bulletin Ministry of Agriculture, London	Tech. Bull. Minist. Agric. Lond.
Technical Bulletin Minnesota Agricultural Experiment Station, St. Paul	Tech. Bull. Minn. agric. Exp. Stat.
Technical Bulletin New Hampshire Agricultural Experiment Station, Durham	Tech. Bull. N.H. agric. Exp. Stat.
Technical Bulletin New York State Agricultural Experiment Station, Geneva	Tech. Bull. N.Y. St. agric. Exp. Stat.
Technical Bulletin North Carolina Agricultural Experiment Station, Raleigh	Tech. Bull. N.C. agric. Exp. Stat.
Technical Bulletin Oklahoma Agricultural Experiment Station, Stillwater	Tech. Bull. Okla. agric. Exp. Stat.
Technical Bulletin Oregon Agricultural Experiment Station, Corvallis	Tech. Bull. Ore. agric. Exp. Stat.
Technical Bulletin United States Department of Agriculture, Washington, D.C.	Tech. Bull. U.S. Dep. Agric.
Technical Bulletin Virginia Agricultural Experiment Station, Blacksburg	Tech. Bull. Va agric. Exp. Stat.
Technical Communication Bureau of Sugar Experiment Stations, Queensland	Tech. Commun. Qd Bur. Sugar Exp. Stats
Technical Communications of the Commonwealth Agricultural Bureaux, London	Tech. Commun. Commonw. Bur.
Technical Digest, Washington and Ottawa	Tech. Dig.
Technical Memorandum Bayer Products Ltd., London	Tech. Memor. Bayer Products, Lond.
Technical Publication Canterbury Agricultural College, New Zealand	Tech. Publ. Canterbury agric. Coll.
Technical Publications Inter-American Institute of Agricultural Sciences, Washington, D.C.	Tech. Publ. inter-amer. Inst. agric. Sci.
Tekel Enstitüleri Raporlari, Istanbul	Tekel Enst. Raporlari
Tekel Tutun Institutü Raporlari, Istanbul, <i>see</i> Tekel Enstitüleri Raporlari	
Terre Marocaine, Casablanca	Terre maroc.
Tidsskrift for Planteavl, Copenhagen	Tidsskr. Planteavl.
Tijdschrift over Plantenziekten, Wageningen	Tijdschr. PlZiekt.
The Times Review of Industry, London	Times Rev. Industr.
Tin Printer and Box Maker and Canning Industry, London	Tin-Print. Box Mkr & Canning Ind.
T.N.O.-Nieuws, Groningen, Holland	T.N.O.-Nieuws
Transactions of the British Mycological Society, Cambridge	Trans. Brit. mycol. Soc.
Transactions Peninsula Horticultural Society, Dover, Delaware	Trans. Peninsula hort. Soc.
Transactions and Proceedings of the Botanical Society of Edinburgh, Edinburgh	Trans. bot. Soc. Edinb.
Translated Contents List of Russian Periodicals, D.S.I.R., London	Transl. Contents List Russ. Period.
Tropical Agriculture. Journal of the Imperial College of Tropical Agriculture, Port of Spain	Trop. Agriculture Trin.
Tropical Agriculturist and Magazine of the Ceylon Agricultural Society, Peradeniya	Trop. Agriculturist
Tropical Woods, New Haven, Conn.	Trop. Woods
Tuinbouw, The Hague	Tuinbouw
Tunisie Agricole, Tunis	Tunis. agric.
Uspehi Sovremennoi Biologii (Progress in modern biology), Moscow [Russian]	Uspehi sovremen. biol.
Valtion Maatalouskoetöiminnan Julkaisuja (Agricultural Experiment Activities of the State [Finland] Publication), Helsinki	Valt. Maatalousk. Julk.
Växtodling; Skrifter från Institutionen för Växtodlingslära vid Kungl. Lantbrukshögskolan, Uppsala	Växtodling
Växtskyddsnotiser, Stockholm	Växtskyddsnotiser
Vegetatio, The Hague	Vegetatio

LIST OF PUBLICATIONS

Publication

Veröffentlichungen der Bundesanstalt für Alpine Landwirtschaft in Admont, Austria
 Verslag van het Landbouwproofstation en Bodemkundig Instituut T.N.O. Groningen, Holland
 Verslagen en Mededelingen van de Plantenziektenkundige Dienst te Wageningen, *see under* Mededelingen
 Versuchsergebnisse der Bundesanstalt für Alpine Landwirtschaft Admont, Austria
 Vinodelie i Vinogradarstvo (Wine-making and Viticulture), Moscow [Russian]
 Viticulture Arboriculture, Paris
 Vlugschrift van den Plantenziektenkundigen Dienst te Wageningen, Wageningen

 Wallerstein Laboratories Communication, New York
 Weather, London
 West Punjab Fruit Journal, Lyallpur, *see* Punjab Fruit Journal
 Wine-making and Viticulture, Moscow [Russian], *see* Vinodelie i Vinogradarstvo
 Wisconsin Horticulture, Madison, Wis.
 World Crops, London

 Yearbook of Agriculture U.S. Department of Agriculture, Washington, D.C.
 Yearbook, California Avocado Society, Los Angeles
 Yearbook of Caribbean Research, Port of Spain, Trinidad
 Yearbook of the Faculty of Agriculture of the University of Belgrade, Yugoslavia
 Yearbook of the Royal Veterinary and Agricultural College, Copenhagen

 Zeitschrift für Pflanzenernährung, Düngung, Bodenkunde, Weinheim and Berlin
 Zeitschrift für Pflanzenkrankheiten, Stuttgart
 Zoological Record, Section Insecta, London
 Züchter, Berlin
 Žurnal Obščei Biologii (Journal of General Biology), Moscow [Russian]

Suggested abbreviation

Veröff. Bundesanst. alpine Landw. Admont
 Versl. LandbProefst. T.N.O. Groningen

 Versuchsergebn. Bundesanst. alpine Landw. Admont

 Vitic. Arboric.
 Vlugschr. PlZiekt. Dienst Wageningen

 Wallerstein Lab. Commun. Weather

 Wis. Hort.
 World Crops

 Yearb. Agric. U.S. Dep. Agric.
 Yearb. Calif. Avoc. Soc.
 Yearb. Caribbean Res.
 Yearb. Fac. Agric. Belgrade
 Yearb. roy. vet. agric. Coll. Copenhagen

 Z. PflErnähr. Düng.
 Z. PflKrankh.
 Zool. Rec.
 Züchter
 Žurn. obščei Biol.

HORTICULTURAL ABSTRACTS

Errata, Volumes XVI—XX, 1946-1950

N.B.—These do not include errors in the individual yearly indexes, which are now superseded by the 5-year index.

Volume XVI

- Abstract
301 Title. Line 3 and line 1 of abstract. For *ascetella* read *assectella*
356 Author. For Wellensick, S. J. read Wellensiek, S. J.
416 Author. For Cameron, S. N. read Cameron, S. H.
836 Line 3. For Agrozone read Agrozone
1126 Title and Line 1. For *Cinnamomum* read *Cinnamomum*
1192c Title. Line 2. For plaitain read plantain
1206 Line 4. For the flowers read hydrangea flowers
1896 Lines 3 and 4 should read: by *Pseudomonas mors prunorum*, but branch or stem cankers are absent. However, the
1957 Line 6. For 200 cwt. read 2 cwt.

Volume XVII

- 167 Line 2. For *termifera* read *terminifera*
271 Last line. For *aroidea* read *aroideae*
310 Title. Line 5. For *Lantbr.* read *Kungl. Lantbr.*
408 Author. For Portières read Portères
512 Title. Line 1. For TWENTY-SEVENTH read TWENTY-NINTH
547 Author. For Anderson, W. H. read Anderson, H. W.
571 Author. For Martin, L. E. R. read Martin, L. R. E.
705 Penultimate line. For HCN read HCH
800 Author. For Vaughan, J. R. read Vaughn, J. R.
1081 Title. Line 4. For 309 read 809
1246 Author. For Siaenes, F. read Siaens, F.
1449 Title. Line 1 and line 1 of abstract. For canker read wart disease
1585 Author. For Malott, J. C. read Maloit, J. C.
1651 Author. For Loucks, F. W. read Loucks, K. W.
1841 Title. Line 1. For *paeonia* read *Paeonia*
1879 Line 1. For *transchettii* read *franschettii*
1907g Penultimate line. For 66: read pp.
2134 Penultimate line. For *Criocerus* read *Crioceris*
2239 Title. For Schroeder, R. H. read Schroeder, R. A.
2760 l Last line. For 66: read pp.
2776 Line 20. For *Cinnamomum* read *Cinnamomum*

Volume XVIII

- 619 Line 4. For *Anopelepis* read *Anoplolepis*
1296 Line 3. For 100 read 1,000
1354 Line 8. For *Anoplolepis* read *Anoplolepis*

Volume XIX

- 660 Author. For Bovey read Bovay
679g Author. For Glendenning read Clendenning
888 Author. For Kramer read Kremer
900 Title. Line 5. For *Ann. agric.* read *Ann. agron.*

Abstract

- 905 For present abstract substitute—
Analyses made by workers of the Pennsylvania Agricultural Experiment Station indicate that peach leaves taken from terminal growth show the highest degree of correlation between leaf K and K application. Further, leaves from the basal part of the current season's wood are most suitable for estimating the level of K available to the trees.
924 Author. For Schultz read Schulz
965 Author. For Balckmon read Blackmon
1205 Title. For 381 read 391
1894e Title. Line 3. For 50: 6: 9-10 read 50: 5: 9-10
2460 Line 3. For 1936 read 1536
2590 Line 20. For soil-inhibiting read soil-inhabiting
2731 Title. Line 3. For 50: 7: 7 read 50: 6: 7
2735 Line 2. For 1919 read 1949
2753 Author. For Scheng read Schenk
2808n Title. Line 3. For 50: 8: 24 read 50: 7: 24
2979 Line 8. For insecticide read fungicide
3327 Title. Line 3. For 91 read 90
3364 Penultimate line. For thus stored read stored with buttons
3390b Author. For Bradbent read Broadbent
3522 Penultimate line. For date read print
3566 Title. Line 4. For 1949 read 1948
2880 3099 and 3173. Titles. For 1948 read 1948 (issued 1949)

Volume XX

- 63 Line 3. For 19: 1791, 1795, 1976 read 19: 107, 1791, 1796, 1797
143 Line 4. Omit and *S. squamosus*
201 Author. For Stoddard, L. A. read Stoddart, L. A.
473 Line 6. For infection read injection
560 Title. Line 4. For *Rev. romande Agric. Vitic. read Rev. hort. suisse*
637 Author. For de Ferrière, J. F. read Franc de Ferrière, J.
979 Title. Line 4. For 1950 read 1949
1110 Title. Line 3. For *Bull. Jamaica Dep. Sci. Agric. read Bull. Barbados Dep. Sci. Agric.*
1394 Line 3. For 1 c.c. read 0.1 c.c.
1445 Author. For Makarov-Kožuhov, L. H. read Makarov-Kožuhov, L. N.
1783 Title. Line 4. For 187-92 read 129-70, bibl. 5.
2248 Author. For von Denfer, D. read von Denffer, D.
2447 Author. For de Ferrière, P. J. J. F. read Franc de Ferrière, P. J. J.
2488 Author. For Dominion Forest Service read Manitoba Forest Service
Title. Line 4. For (Publ.) Dominion Forest Serv. read (Publ.) Manitoba Forest Serv.
2516 Line 4. For *erybotriae* read *eribotryae*
3053g Last line. For 3 read 53
827, 855, 877 and 878. Titles. For 1948 read 1948 (issued 1949)

